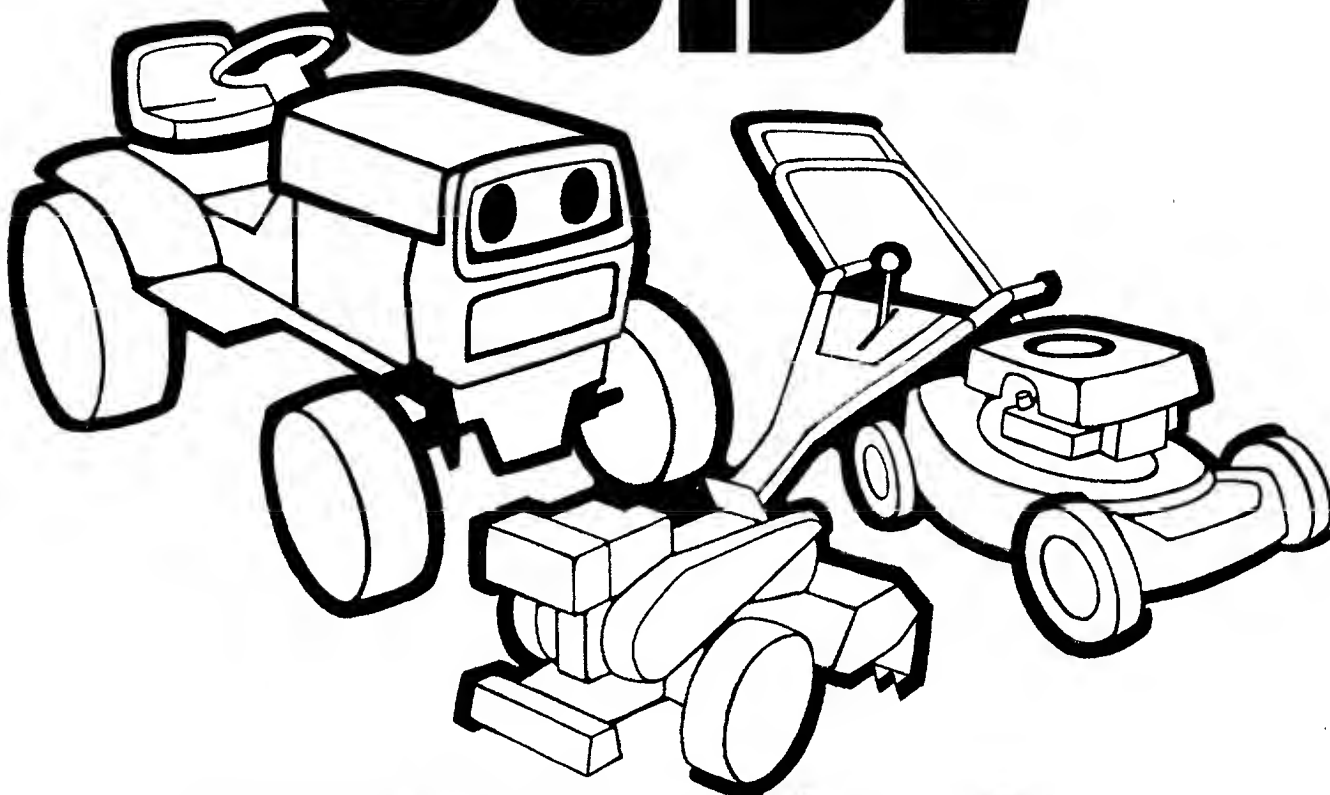


OWNER'S GUIDE



**ASSEMBLY
OPERATION
MAINTENANCE
PARTS LIST**

**IMPORTANT:
Read Safety Rules
and Instructions**

MODEL NUMBERS

130-390A

130-395A

**30"
LAWN
TRACTORS**

INDEX

Safe Operation Practices.....	3	Belt Trouble Shooting Chart.....	19
Assembly Instructions.....	4	Deck Linkage.....	20
Battery Information.....	6	Differential.....	21
Controls.....	8	Illustrated Parts for Transmission.....	22
Operating Instructions.....	11	Parts List for Transmission.....	23
Maintenance and Adjustment.....	12	Illustrated Parts for Rider.....	24, 26, 28
Lubrication.....	13	Parts List for Rider.....	25, 27, 29
Belt Removal.....	14	Electrical Diagrams.....	30
Trouble Shooting Chart—Recoil Start Model... 16		Replacement Parts.....	Back Cover
Trouble Shooting Chart—Electric Start Model. 17			

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



WARNING

TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

IMPORTANT

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly—**READ THE OWNER'S MANUAL.**
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
3. Do not carry passengers
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction.
5. Clear work area of objects which might be picked up and thrown by the mower in any direction.
6. Disengage all attachment clutches and shift into neutral before attempting to start engine.
7. Disengage power to attachment(s) and stop engine before leaving operating position.
8. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
9. Before attempting to unclog the mower or discharge chute, stop the engine and be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
10. Disengage power to attachment(s) when transporting or not in use.
11. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
12. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
13. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
14. Stay alert for holes in terrain and other hidden hazards.
15. Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
- D. Use counterweight(s) or wheel weights when suggested in owner's manual.
16. Watch out for traffic when crossing or near roadways.
17. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
18. Handle gasoline with care. It is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
19. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
20. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
21. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
22. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
23. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
24. Do not change the engine governor settings or overspeed the engine.
25. When using the vehicle with mower, proceed as follows:
 - (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
 - (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
 - (4) Check blade mounting bolts for proper tightness at frequent intervals.
26. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
27. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

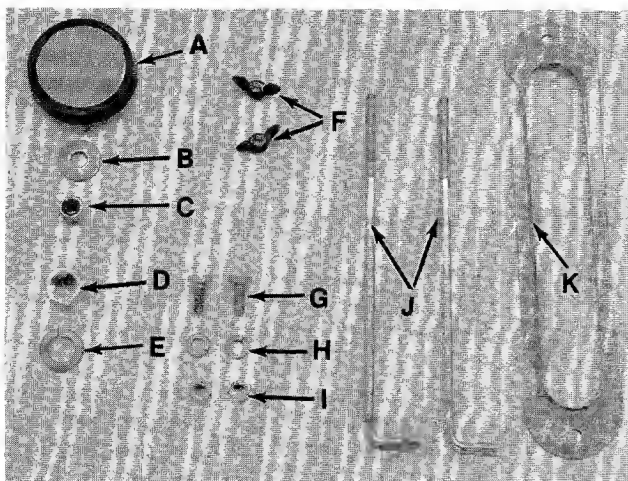


FIGURE 1.

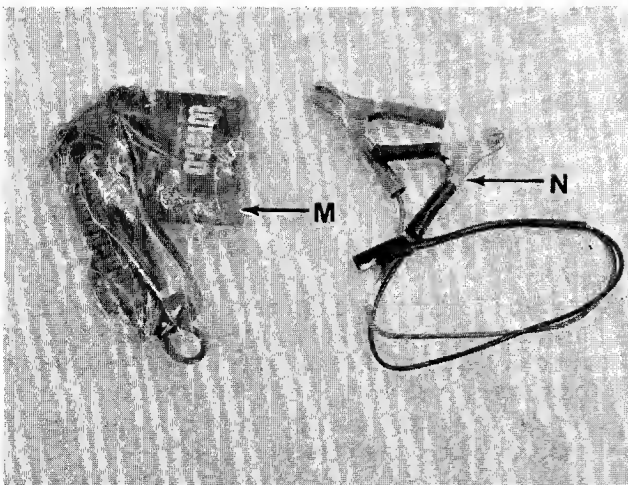


FIGURE 2.

ASSEMBLY INSTRUCTIONS

Tools Required:

- (1) 7/16" Open End or Box Wrench
- (1) 1/2" Open End or Box Wrench
- (1) 3/4" Open End or Box Wrench
- (1) Adjustable Wrench

Contents of Hardware Pack: (See Figure 1)

- A (1) Steering Wheel Cap
- B (1) Belleville Washer
- C (1) Hex Lock Nut 5/16-18 Thread
- D (1) Hex Nut 1/2-13 Thread
- E (1) Lock Washer 1/2" I.D.
- F (2) Wing Nuts*
- G (2) Hex Bolts 1/4-20 x 5/8" Long*
- H (2) Lock Washers 1/4" I.D.*
- I (2) Hex Nuts 1/4-20 Thread*
- J (2) Battery Hold Down Rods*
- K (1) Battery Hold Down*
- L (2) Ignition Keys (Not Shown)
May be in ignition or hardware pack.

Loose Parts in Carton:

(See figure 2)

- M (1) Battery Charger*
 - N (1) Charger Leads*
 - O (1) Seat (Not Shown)
 - P (1) Steering Wheel (Not Shown)
- *Electric Start Model 130-395A Only



NOTE

Reference to right-hand or left-hand side of machine is from the driver's seat facing forward.

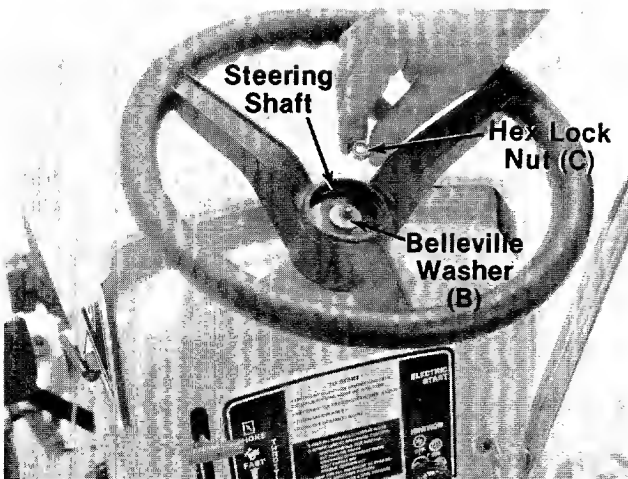


FIGURE 3.

1. Remove the lawn tractor and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.
2. Place steering wheel (P) over steering shaft.
3. Secure with belleville washer (B) and hex lock nut (C). See figure 3.



FIGURE 4.

4. Press the steering wheel cap (A) on the steering wheel by hand. See figure 4.

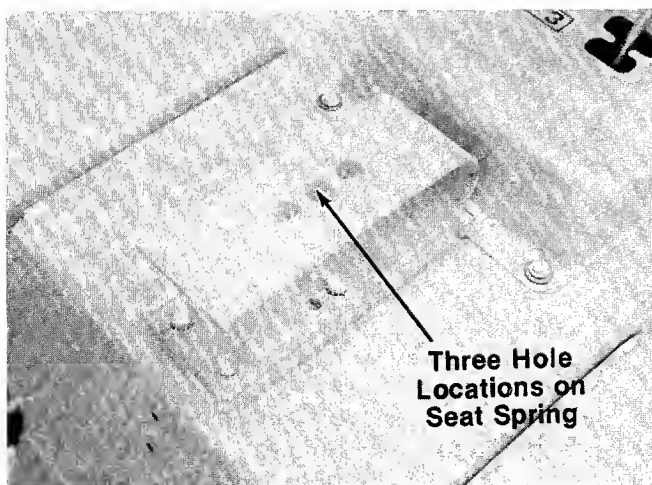


FIGURE 5.

5. The lawn tractor has three hole locations for mounting the seat (O). See figure 5.

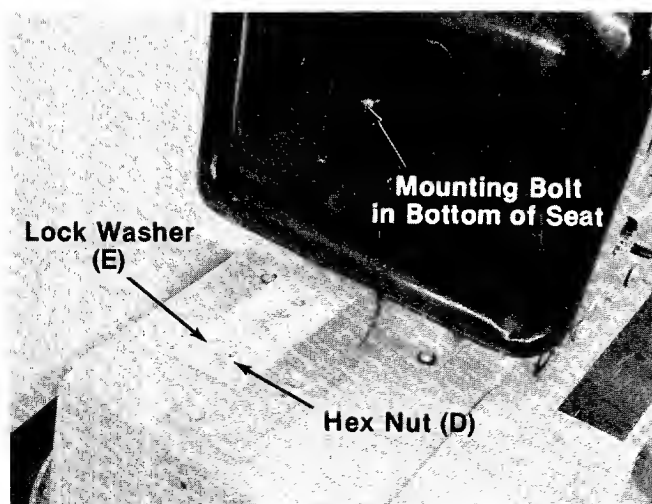


FIGURE 6.

6. The seat comes with the mounting bolt molded in the bottom of seat.
- Secure the seat (O) in position on seat spring with lock washer (E) and hex nut (D). See figure 6.

BATTERY INFORMATION FOR ELECTRIC START MODELS



WARNING

- A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.
- B. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.
- C. If acid gets on clothes, dilute it with clean water first, then neutralize with dilute ammonia water or a water solution of baking soda.
- D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.



DANGER

**BATTERIES CONTAIN SULFURIC
ACID AND MAY CONTAIN EXPLO-
SIVE GASES (when electrolyte has
been added)**

- A. Keep sparks, flame, cigarettes away.
- B. Hydrogen gas is generated during charging and discharging.
- C. Ventilate when charging or using in enclosed space.
- D. When using a charger—to avoid sparks, NEVER connect or disconnect charger clips to battery while charger is turned on.
- E. Always shield eyes and protect skin and clothing when working near batteries.

ACTIVATING THE BATTERY



NOTE

If your battery is activated (electrolyte in the battery) and installed in the tractor, go directly to step 9.

- 1. Place the battery to be filled on a workbench. Never activate a battery in the unit.
- 2. Remove the fill caps from all cells.

- 3. Fill each cell carefully using 1.265 specific gravity electrolyte. Fill each cell to the top of the separators. Do not overfill.
- 4. Let the battery sit for 20 minutes to allow the chemical reaction to take place.
- 5. Charge the battery at a **MAXIMUM RATE OF 5 AMPS.** until the specific gravity reads 1.265. See figure 9. Use a hydrometer to check the specific gravity.



CAUTION

An excessive rate of charge will damage the battery.

- 6. Check the level of electrolyte. Adjust level to bottom of split ring if necessary with electrolyte.
- 7. Replace fill caps.
- 8. Once the battery has been activated, never add anything except distilled water or a good grade of drinking water.
- 9. If your battery has been installed in your unit at the factory:
 - A. Use a hydrometer to check the specific gravity. The specific gravity should be 1.265 at 80° F.
 - B. If it is less, remove the fill caps and use a battery charger to bring the specific gravity up to 1.265. **NEVER CHARGE AT MORE THAN 5 AMPS.**
 - C. Replace the fill caps.
 - D. The positive cable has been attached to the positive terminal of the battery at the factory. You only have to attach the negative cable (grounded to the negative (Neg, N or -) terminal of the battery with a hex head bolt, lock washer and nut.

MAINTENANCE OF BATTERY

- 1. Check electrolyte level periodically (at least every two weeks). Keep the level to the split rings. Use only distilled water or a good quality drinking water. Never add acid or any other chemicals to the battery after initial activation.
- 2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, the battery should be recharged. Maximum charge rate 5 AMPS.
- 3. Coat the terminals and exposed wire with a thin coat of grease or petroleum jelly for longer service and protection against corrosion.

- The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.
- Avoid tipping the battery. Even a "sealed" battery will leak electrolyte when tipped.

STORAGE OF THE BATTERY

- Store the battery in the unit.
- Keep the exterior of the battery clean, especially the top. A dirty battery will discharge itself.
- Check the battery with a hydrometer. The battery must be stored with a full charge. A discharged battery will freeze.

Specific Gravity	Freezing Point
1.265	-71° F.
1.250	-62° F.
1.200	-16° F.
1.150	5° F.
1.100	16° F.



CAUTION

All batteries discharge during storage.

- Recharge battery whenever the specific gravity is less than 1.225, before returning to service or every two months, whichever comes first.

COMMON CAUSES FOR BATTERY FAILURE

- Overcharging
- Undercharging
- Lack of water
- Loose hold downs and/or corroded connections.
- Excessive loads
- Battery electrolyte substitutes
- Freezing of electrolyte



NOTE

These failures do not constitute warranty.

BATTERY REMOVAL OR INSTALLATION



WARNING

When removing the battery, follow this order of disassembly to prevent your wrench from shorting against the frame.

- Remove the Negative cable.
- Remove the Positive cable.

To install a battery:

- Attach the Positive cable.
- Attach the Negative cable.

JUMP STARTING

- Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
- Attach the second jumper cable from the Negative terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.



WARNING

Failure to use this starting procedure could cause sparking, and the gases in either battery could explode.

To Install Battery (Model 130-395A Only)

To install the battery in this unit:

- Open the hood of the lawn tractor.
- Place the battery with the terminals to the FRONT in the battery case. See figure 7.

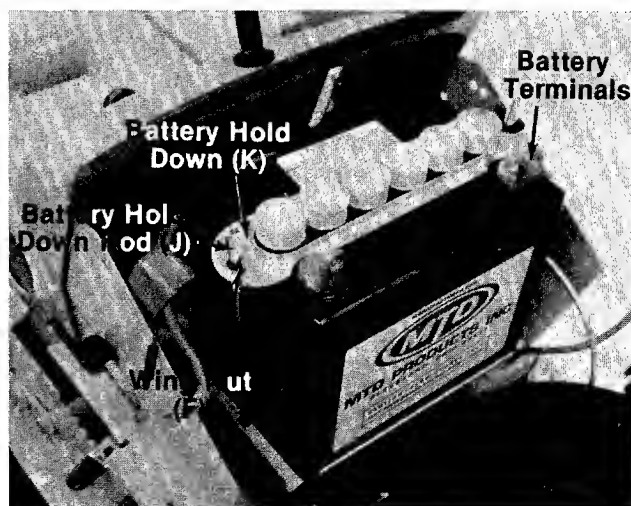


FIGURE 7.

- Hook both hold down rods (J) under the battery case. Place the hold down (K) over the battery caps. Secure with wing nuts (F). See figure 7.



CAUTION

Be sure the flared edge of the hold down is facing up to avoid damage to the battery.

- D. Attach the free end of the positive cable and the small wire from the ammeter to the positive battery terminal with bolt (G), washer (H) and nut (I). The battery terminal is marked +.
- E. Attach the free end of the negative cable to the negative terminal with bolt (E), washer (F) and nut (G). Battery terminal is marked "–". See figure 8.

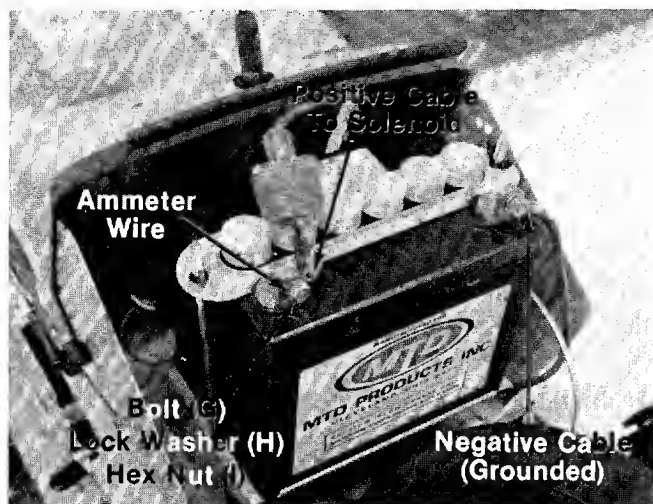


FIGURE 8.

- F. The lawn tractor is shipped with a battery charger and charger lead. When ever charging is required, attach the red clip to the positive (+) terminal and the black clip to the negative (–) terminal. Then plug charger lead into charger. Plug charger into standard household outlet. See figure 9.

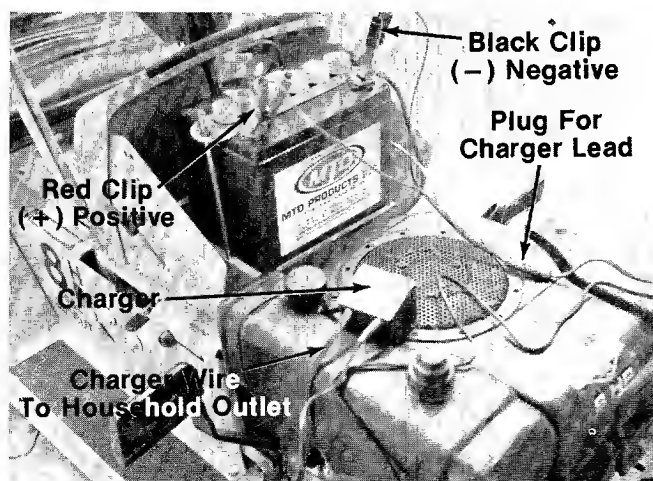


FIGURE 9.

CONTROLS (See figure 10.)

This manual should be read in its entirety before operating the Lawn Tractor. The more you know and understand about the machine and its operation, the better job it will do for you. While reading the manual, compare the illustrations with your tractor to familiarize yourself with the locations of various controls, lubrication points, attachments and adjustment features.

Study the operating instructions and safety precautions thoroughly to insure proper functioning of your tractor and to prevent injury to yourself and others. Be sure to save this manual for future reference.

THROTTLE CONTROL

The throttle control is used to regulate the engine speed and to activate the choke on the engine. To get maximum efficiency from cutting, the throttle should be in the FAST position when operating the mower. Pushing the throttle all the way forward past FAST, will choke the engine. See figure 10.

IGNITION KEY

Recoil Model. The key must be turned to the "ON" position before you pull the recoil handle to start the engine. Turn the key to the left to the "OFF" position to stop the engine. Remove the key when the unit is not in use. See figure 13.

Electric Start Model. The key must be turned to the "START" position to start the engine. After the engine is running, let the key return to the "ON" position. Turn the key to the "OFF" position to stop the engine. Remove the key when the mower is not in use. See figure 10.

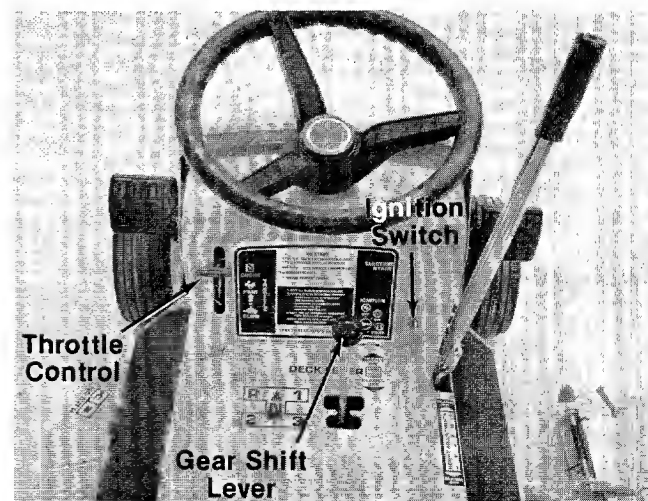


FIGURE 10.

INTERLOCKS (Not Shown)

An interlock safety switch is located on the clutch pedal and the lift and disengagement lever.

Before the engine will start, the clutch pedal must be depressed all the way. It can be locked in this position. The lift and disengagement lever must also be in the disengaged position.

BRAKE

The brake pedal is located on the right hand side of the tractor and is operated by depressing it with your right foot. See figure 11.

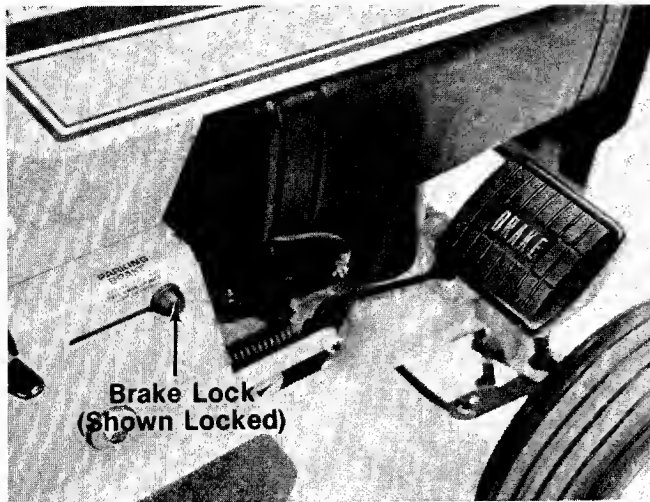


FIGURE 11.

BRAKE LOCK

The brake lock is located on the right hand side of the tractor. To lock the brake, depress the brake pedal and lift up the lock button. The pedal will stay depressed. To release, depress the brake pedal. Always lock the brake when you park the mower. See figure 11.

CLUTCH

The clutch pedal is located on the left hand side of the tractor and is operated with your left foot. Depress the pedal to disengage the drive mechanism. Release the clutch slowly to engage. The clutch and brake pedals must both be depressed when stopping the tractor. When shifting gears, the clutch pedal must be disengaged, and the tractor cannot be moving. See figure 12.

CLUTCH LOCK

When the clutch pedal is depressed all the way it can be locked by lifting up the lock button. The pedal will stay depressed. To release, depress the pedal. See figure 12.



The clutch pedal must be depressed to start the engine.

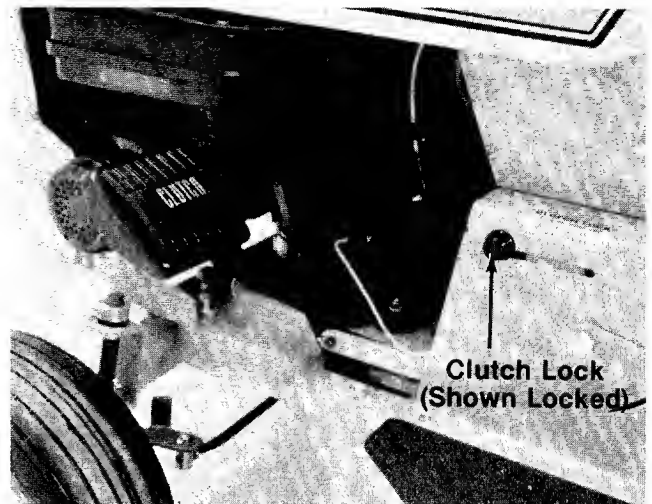


FIGURE 12.

RECOIL STARTER HANDLE (Model 130-390A Only)

The recoil starter handle is located on the right side of the dashboard. The recoil starter handle can either be pulled while seated on the rider or pulled while standing behind the rider. The ignition key must be on before the engine will start. After the engine starts, the recoil starter handle must be returned and locked into the dashboard before the blade or clutch are engaged. The engine will stop if these instructions are not followed. See figure 13.

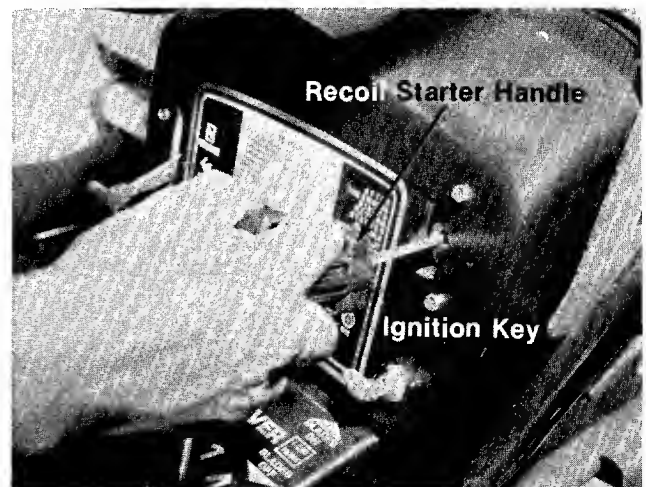


FIGURE 13.

GEAR SHIFT LEVER

Three Speed—The three speed transmission has three forward speeds, neutral and reverse. The clutch pedal must be depressed to shift gears. It may be necessary to release the clutch pedal slightly to shift the gear shift lever. Do not force the shift lever.

1st Gear—Heavy Cutting
 2nd Gear—Medium Cutting
 3rd Gear—Medium Cutting
 N—Neutral
 R—Reverse

See figures 10 and 14.

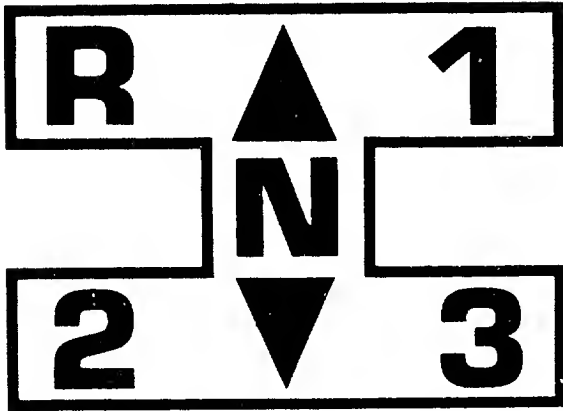


FIGURE 14. THREE SPEED TRANSMISSION

MOWER LIFT AND DISENGAGEMENT LEVER

The lift and disengagement lever is used to raise the cutting deck. Pulling it all the way back and locking it disengages the blade.



The engine will not start unless the lift and disengagement lever is in the disengaged position. See figure 15.

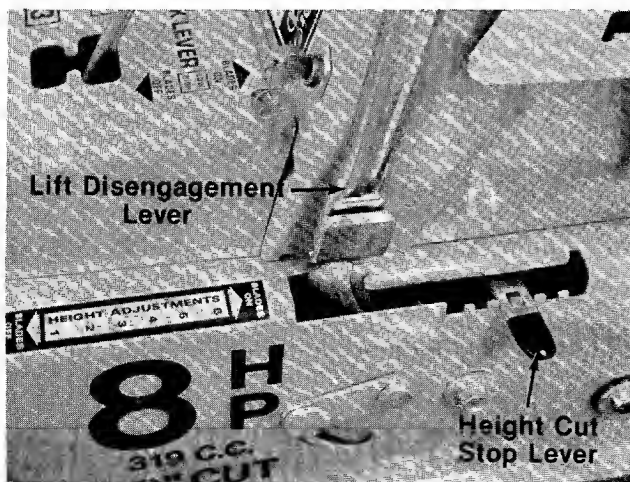


FIGURE 15.

HEIGHT-OF-CUT CONTROLS

The cutting controls consist of the height of cut stop and the wheel height adjusters.

Height of Cut Stop. See figure 15. Lift the stop and set it at the desired cutting height. Allow the lift and disengagement lever to come forward to rest against the height of cut stop.

Wheel Height Adjuster. Move the lever towards the wheel and set it in the desired cutting height position. See figure 16. Both wheels must be in the same relative position.

SETTING THE CUTTING HEIGHT

The cutting height of the mower can be set in two different ways: Full Float position where the deck follows the contour of the ground, and the Suspended position where the deck hangs from the frame of the rider. The suspended position is normally used for cutting rough uneven ground.

To set the cutting deck in the full float position:

Set the wheel height adjusters in the desired cutting height as indicated in figure 16. Set height of cut stop in the lowest position. See figure 15.

To set the cutting deck in the suspended position:

Set the height of cut stop in the desired cutting height. Then set the deck wheels so they just clear the ground.

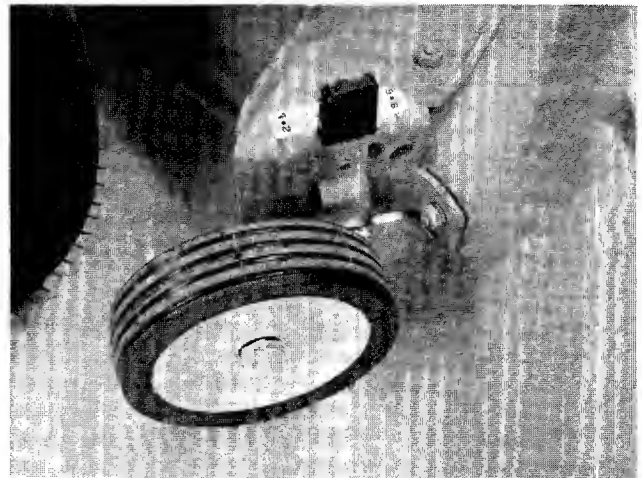


FIGURE 16.



Parking Brake **must** be disengaged before unit is put into motion.



Unit is equipped with separate brake and clutch pedals. To efficiently stop, it is necessary to disengage clutch when applying brakes.

OPERATING INSTRUCTIONS

FOR SHIPPING PURPOSES, THE TIRES ON YOUR UNIT MAY BE OVER-INFLATED. TIRE PRESSURE SHOULD BE REDUCED BEFORE UNIT IS PUT INTO OPERATION. RECOMMENDED PRESSURE SHOULD BE APPROXIMATELY 15 P.S.I. EQUAL TIRE PRESSURE SHOULD BE MAINTAINED ON ALL TIRES. MAXIMUM TIRE PRESSURE IS 30 P.S.I.

CAUTION

1. KEEP ALL SHIELDS & GUARDS IN PLACE
2. BEFORE LEAVING OPERATOR'S POSITION:
SHIFT CONTROLS INTO NEUTRAL
SET PARKING BRAKE
DISENGAGE ATTACHMENT DRIVE
SHUT ENGINE OFF
REMOVE IGNITION KEY
3. WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING MACHINE
4. KEEP PEOPLE & PETS A SAFE DISTANCE AWAY FROM MACHINE

CAUTION

DO NOT OPERATE
MOWER UNLESS
GUARD OR ENTIRE
GRASS CATCHER IS
IN ITS PROPER PLACE.

STARTING THE ENGINE

1. Be sure the crankcase is filled with oil as recommended in the engine manual. Put regular gasoline in the gasoline tank.
2. Attach the wire to the spark plug.
3. Depress the brake pedal and lock it down with the brake lock. See figure 11.
4. Depress the clutch pedal and lock it down with the clutch lock. See figure 12.
5. Move the lift and disengagement lever backward to the disengaged position and lock it. See figure 15.
6. Set the throttle control lever in the "CHOKE" position. See figure 10.

7. a. **Recoil Model.** Turn the ignition key to the "ON" position. Twist the recoil starter handle until it is free and pull it with a quick steady motion. After the engine starts, return the recoil starter handle and twist it until it locks. See figure 13.
b. **Electric Start Model.** Turn the ignition key to the "START" position. As soon as the engine starts, let the key return to the "ON" position. See figure 10.
Slowly return the throttle to the running position as soon as the engine starts.
8. To stop the engine, turn the ignition key to the "OFF" position. Remove the key when the unit is not in use.

PUTTING THE LAWN TRACTOR IN MOTION

1. Advance the throttle control from 3/4 to full throttle to prevent strain on the engine and to operate the cutting blades.
2. Depress the clutch pedal so the clutch lock releases.
3. Depress the brake pedal so the brake lock releases.
4. Place the gear shift lever in the number 1 position on the three speed unit.
5. Slowly release the clutch pedal.
6. To stop the unit, depress the clutch pedal and the brake pedal.
7. The blade can be engaged either while moving or while standing still. Move the lift and disengagement lever forward slowly until the blade is running.



As you become more familiar with the tractor, stop the unit and shift into a higher gear.

STOPPING

Engine—Turn the ignition key to the left to the "OFF" position.

Lawn Tractor—Depress the clutch and brake pedals.

Blades—Move the lift and disengagement lever all the way to the rear and lock it.



After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

MAINTENANCE

CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

Check oil level before starting engine and after every 5 hours of operation. Be sure oil level is maintained to **FULL POINT OF OVERFLOWING**.

Change Oil after first 5 hours of operation. Thereafter change oil every 25 hours of operation. Remove oil drain plug and drain oil while engine is warm. Replace drain plug. Remove filler plug and refill with new oil of proper grade. Replace plug. See figure 17.

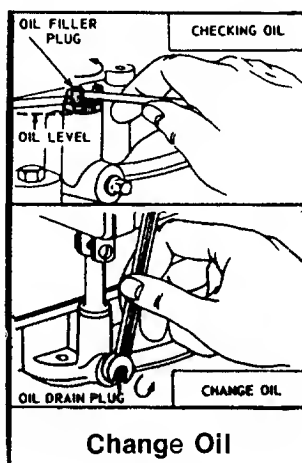


FIGURE 17. CHECKING OIL



NOTE

To insure safe operation, ALL nuts and bolts must be checked periodically for correct tightness.

MOWER DECK

The underside of the mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next mowing.

The deck may be cleaned by washing with a stream of water from a garden hose.

Be sure to disconnect the spark plug wire and ground it while performing this maintenance.

BLADES



WARNING

Disconnect the spark plug wire and remove the ignition key before removing the blades.

Sharp and balanced blades are essential for efficient mowing and long mower and engine life. When sharpening blades, file equal amounts of metal from each side. The blades should be balanced before they are reinstalled. An unbalanced blade will cause excessive vibration and undue wear on the mower and the engine. When reassembling, all parts must be installed in the proper order and fastened securely.

Remove the 3/8" bolt and lock washer. Pull the blade and adapter off the mower deck. To remove the adapter from the blade, remove the two 5/16" bolts, lock washers and nuts. See figure 18.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.

5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

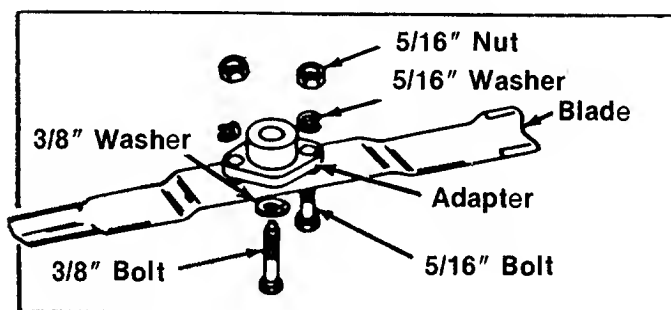


FIGURE 18. BLADE REMOVAL

BRAKE ADJUSTMENT (See figure 19)

The brake is located by the right rear wheel inside the frame. TO ADJUST THE BRAKE remove the cotter pin. Tighten the castle nut one half turn and then test the brakes. After attaining the proper adjustment, replace the cotter pin.

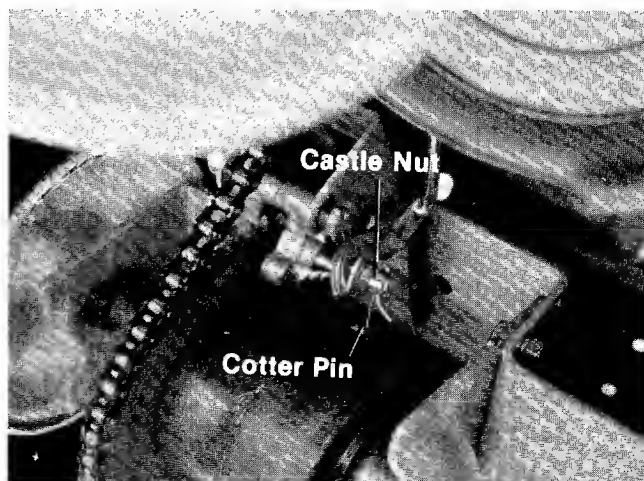


FIGURE 19.

CHAIN ADJUSTMENT

After the first five hours of operation, the initial slack should be removed from the chain. The chain should be tight enough so that it deflects approximately $\frac{1}{2}$ " when it is depressed with the thumb.

To tighten the chain, loosen the four locking nuts on each side of the rear axle. See figure 20.

Tighten the adjusting nuts until the proper chain tension is obtained. See figure 21.

Tighten the locking nuts on the rear axle. See figure 20.

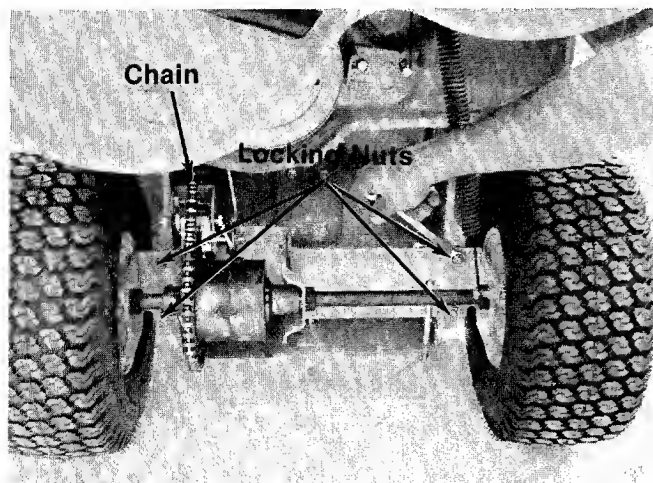


FIGURE 20.

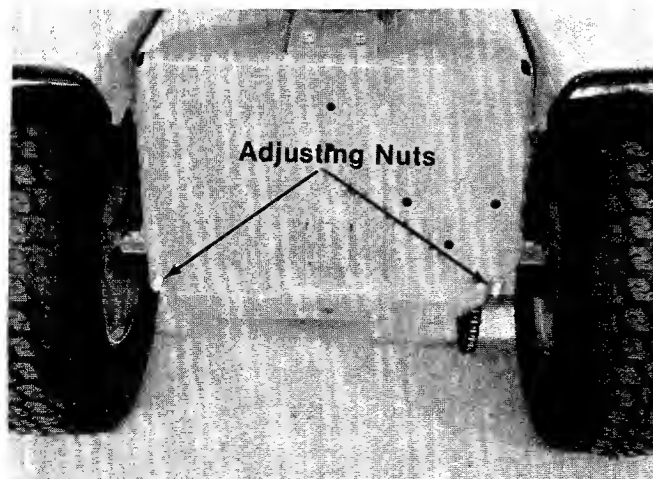


FIGURE 21.



WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches, blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

LUBRICATION

1. Front Wheel Bearings (4)—Lubricate with SAE 30 oil once a season or after every 25 hours of operation. See figure 22.
2. Steering Gears—Lubricate the two gears with automotive multi-purpose grease once a season.
3. Pivot Bolt—Lubricate with SAE 30 oil once a season. See figure 22.

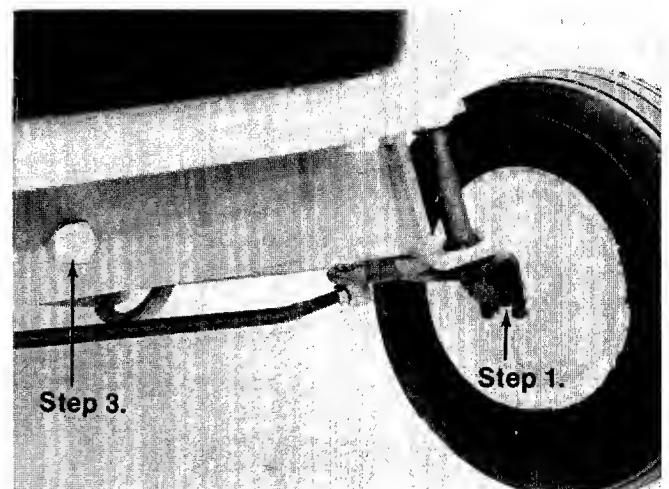


FIGURE 22.

4. Differential—It is lubricated at the factory with 2 ounces of high temperature grease (450°F.). The grease should only be checked or replaced if the differential is disassembled for repair. See figure 23.
5. Transmission—It is lubricated at the factory with 12 ounces of E.P. Lithium grease. The grease should only be checked or replaced if the transmission is disassembled for repair.
6. Steering Column Bearings (2)—Oil once a season with SAE 30 oil.
7. Rear Axle Bearings (3)—They require no lubrication. See figure 23.



WARNING

Do not get oil on the sprocket or brake pads.

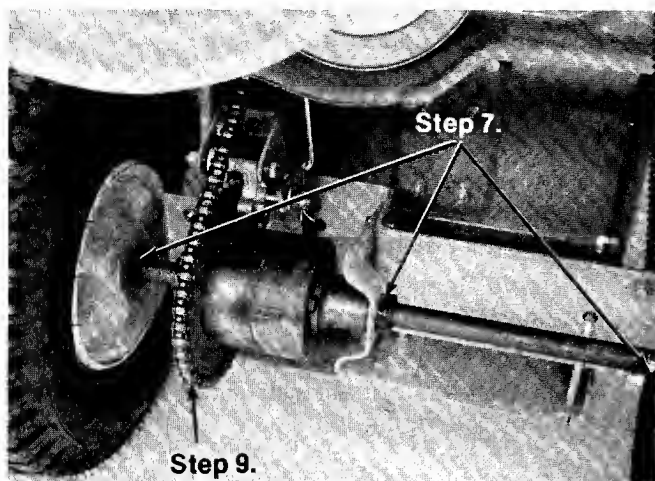


FIGURE 23.

8. Steering Shaft Bearings (2)—They require no lubrication.
9. Chain—Remove and clean with kerosene. Lubricate with an oil soaked rag. See figure 23.

The following items have sealed bearings and require no further lubrication.

Blade Spindle Bearings
Tie Rod Ends
Idler Bearings

BELT REPLACEMENT



WARNING

Before up-ending vehicle for maintenance, position it on a hard level surface. Make sure area is clear of children and pets. Secure (tie) in place.

Disconnect the spark plug wire and ground it against the engine.

To prevent gasoline from leaking from the gasoline tank, remove the cap, place a piece of plastic film over the neck of the tank, screw on the cap, or drain tank.

1. Put the lift lever in the disengaged position.
2. Remove the belt keeper and shoulder bolt on the engine pulley. See figure 24.

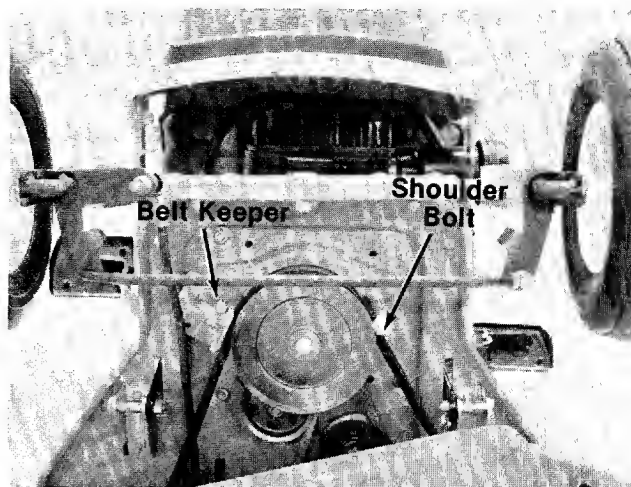


FIGURE 24.

3. Remove the blade belt from the engine pulley.
4. Put the lift lever in the engaged position.
5. Remove the two tension springs on the rear of the deck.
6. Remove the six pins holding the deck to the frame. See figure 25.
7. Lift off the deck and set it aside.

BLADE BELT (See figure 26)

1. Take off both belt guards on the deck.
2. Remove and replace the belt with a new one.

TRANSMISSION BELT (See figure 25)

1. Remove the engine belt guard from the engine pulley by removing the two front engine bolts.
2. Remove the two belt guards from the transmission pulley.
3. Remove the V-idler pulley.
4. Remove and replace the transmission belt and reinstall pulley.

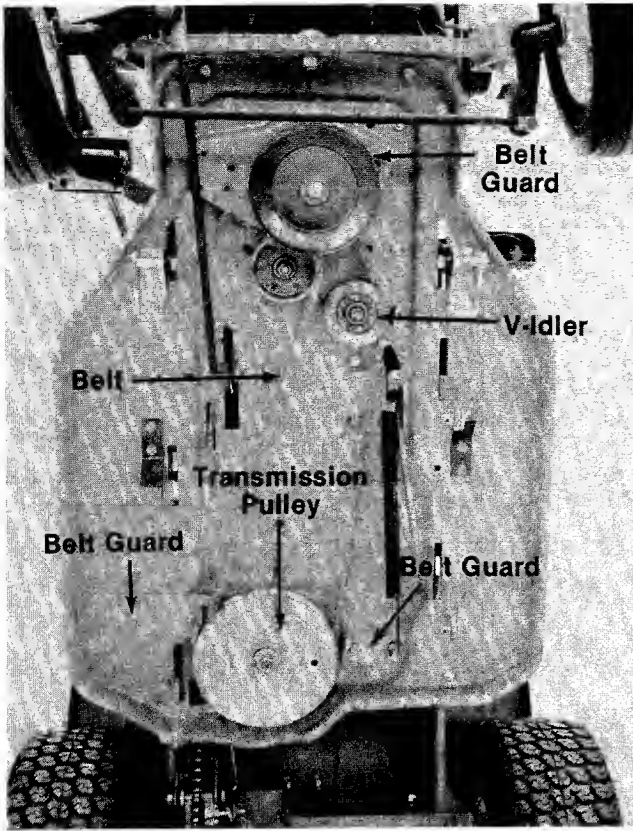


FIGURE 25.

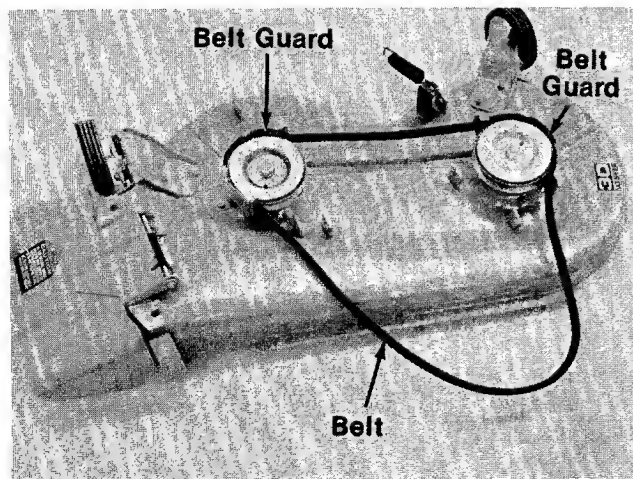


FIGURE 26.

GRASS CATCHER Model No. 190-015A is available as optional equipment for the mower shown in this manual.



WARNING

The mower should not be operated without the entire grass catcher or chute deflector in place.



NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

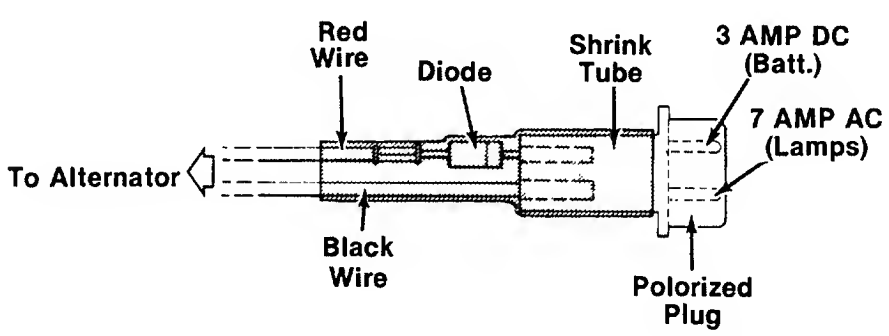
For replacement bags, use only factory authorized replacement bag No. 764-0121.

TROUBLE SHOOTING CHART FOR RECOIL START MODELS

CAUTION: ALWAYS DISCONNECT SPARK PLUG BEFORE ATTEMPTING ANY REMEDY.

TROUBLE	LOOK FOR	REMEDY
Engine will not start when recoil handle is pulled.	Clutch and blade not disengaged.	Clutch pedal must be depressed and blade must be shut off.
	Ignition key not in the ON position.	Turn on the ignition key.
	Throttle not in the starting position.	Check owner's guide for correct position for throttle control for starting.
	No spark to spark plug.	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have the engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor.	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line is plugged. Remove and clean.
	Air filter dirty.	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
	Mechanical failure (wires or switch).	The interlock system includes two mechanical activated switches which are wired in parallel. If the buttons on both switches are not depressed at least 1/8", the magneto will be grounded and the engine will not start. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Disconnect the yellow wire where it attaches to the primary wire from the breaker assembly on the engine. Try to start the engine. If the engine does not start , the problem is in the engine (e.g. no fuel or no ignition). If the engine does start, the problem is in the safety system. Check the following: 1. The interlock wire may be grounded by being pinched or rubbing through the insulation. Tape or replace the wire. 2. The bolt on the flat spring behind the recoil starter where the yellow wire attaches must be insulated from the spring. Use a continuity tester. If it is not insulated, remove the bolt and nut, and replace the two fiber washers and reassemble.
Engine stops when the mower blade is engaged or the clutch is released.	Recoil handle is not in proper position.	After the engine starts, the recoil starter handle must be pushed into the dashboard and turned a quarter turn either direction to lock it in place.
Engine smokes.	Engine loses crankcase vacuum.	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration.	Bent or damaged blade spindle	Stop engine immediately. Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness or damage. Tighten or replace any damaged parts.
	Bent blade.	Stop engine immediately. Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips.	Engine speed too low.	Throttle must be set between 3/4 and full throttle.
	Transmission selection.	Use lower transmission gear. The slower your ground speed, the better the quality of cut.
	Blades short or dull.	Sharpen or replace blades (uncut strip problem only).

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative, identified at the terminal post by (Neg, N or -), grounded. The positive (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blow fuse or circuit breaker	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	<p>Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working, either engine alternator or trickle charger.</p> <p>Trickle Charger. Check with multimeter. Charger 725-0578—input 120 V A.C., no load output 13.5 V D.C., rated load current 1 amp. Charger 725-0507—input 120 V A.C., no load output 17.4 V D.C., rated load current 1/2 amp.</p> <p>Alternator (dual or single circuit) The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.</p> <div style="text-align: center;">  </div> <p>The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced.</p>
	Mechanical failure (wires and switches).	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. If the engine does not crank: (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke (if separate control) for starting.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line plugged. Remove and clean.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	Stop engine immediately. Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	Stop engine immediately. Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low	Throttle must be set between 3/4 and full throttle.
	Transmission selection	Use lower transmission gear. The slower your ground speed, the better the quality of cut.
	Blades short or dull	Sharpen or replace blades (uncut strip problem only).

BELT TROUBLE SHOOTING CHART

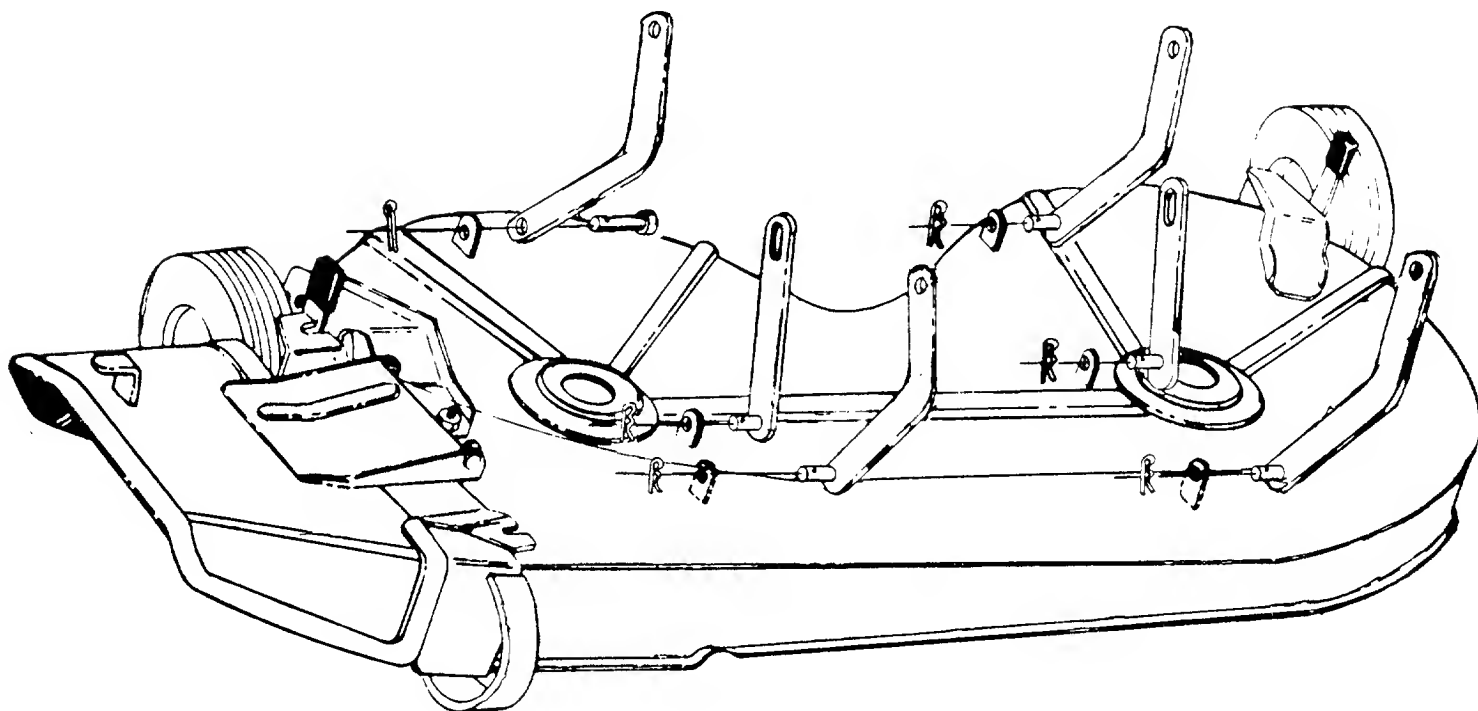
Failure	Probable Cause	Corrective Action
1 Broken Belt	1A Sudden stop or shock load to belt	1A Inspect rider for cause such as foreign objects stuck in between deck and frame or belt path. Remove obstruction and inspect for damage. Replace belt per parts list in this manual.
	1B Incorrect belt used	1B Replace with proper belt only. See parts list in this manual. Roll belt onto pulley. Do not use screwdriver to push or pry belt onto pulley. The sharp bend can damage internal cords.
	1C Abrupt engagement	1C Slower engagement required.
	1D Defective or damaged belt	1D Refer to 1B.
2 Belt Shreds	2A Belt guides or guards incorrectly adjusted	2A Belt guides and guards should be adjusted to approximately 1/16 to 1/8 inch from belt when in the engaged position.
	2B Pulleys not aligned	2B Realign pulleys to be within approximately 1/16 inch of each other. Check with straight edge. Be sure fastening hardware is tight.
	2C Bad pulley—rough, rusty chipped, bent, frozen bearing, etc.	2C Replace as necessary. Adjust as per 2B.
3 Belt Comes Off	3A Belt stretched	3A Adjust as necessary when applicable. Refer to 1B.
	3B Broken or weak idler spring	3B Replace.

DECK LINKAGE

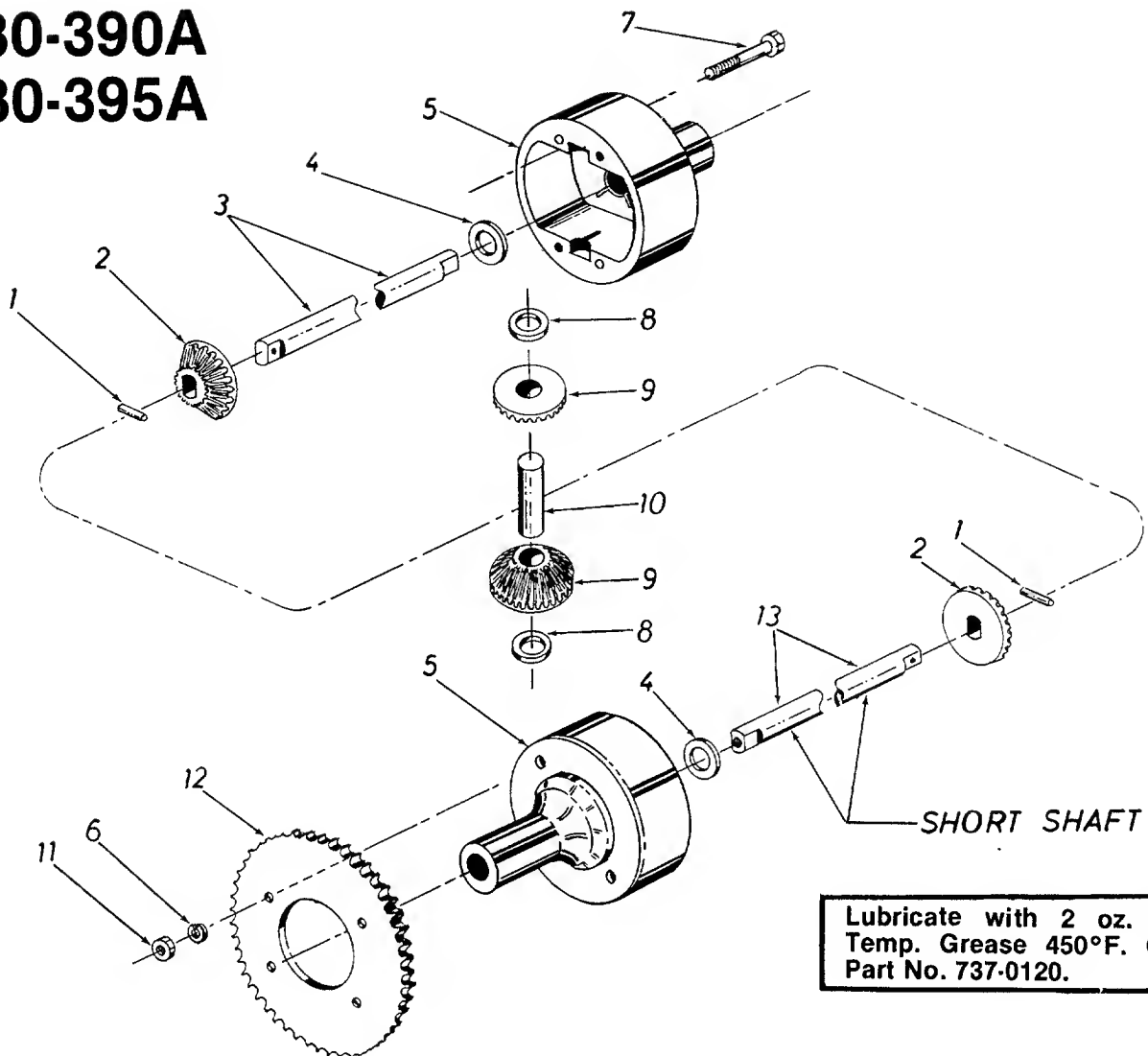


NOTE

Refer to illustration below for proper deck link hook-up. If the deck is removed for any reason use the illustration below for correct assembly.



130-390A 130-395A



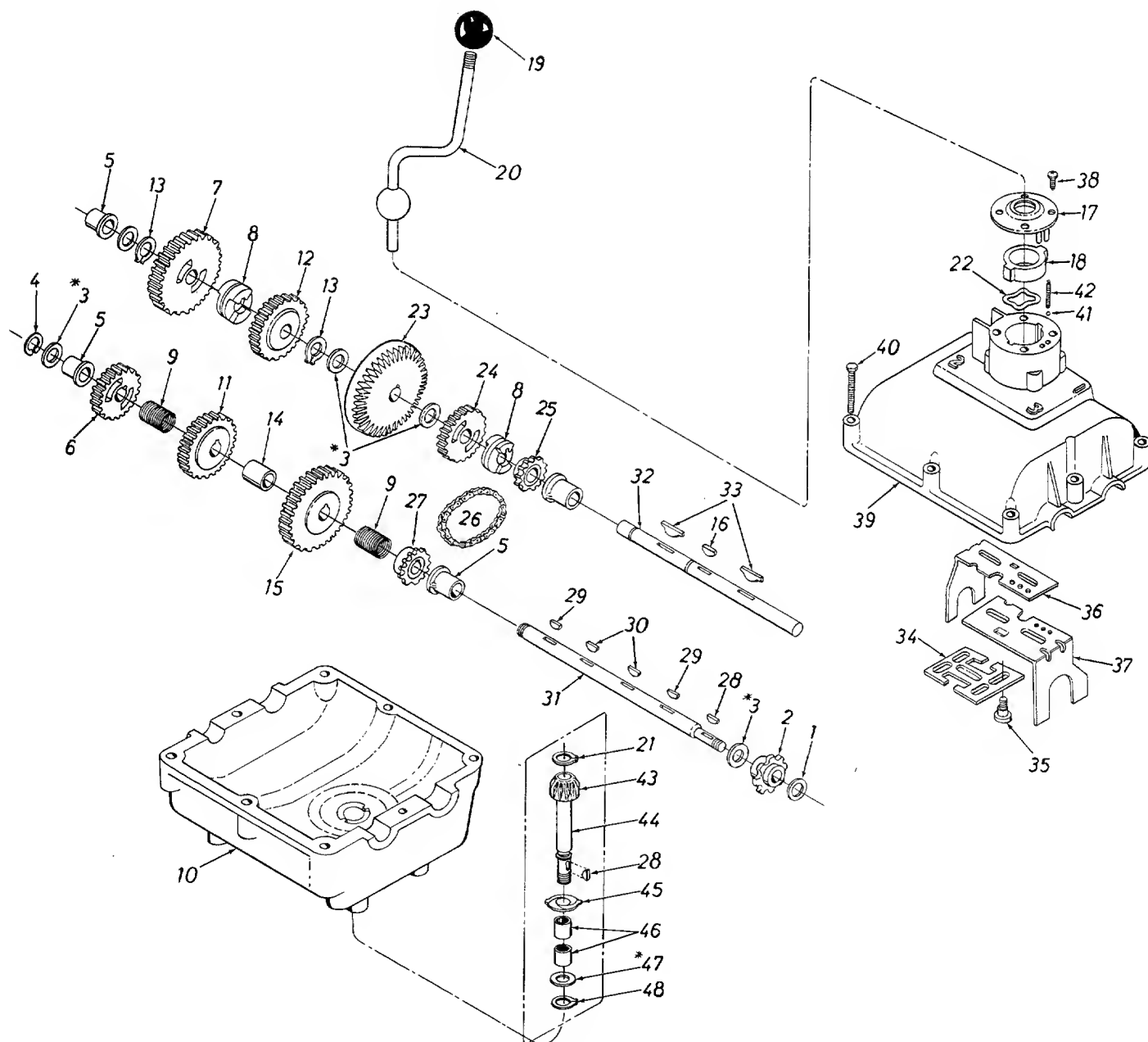
PARTS LIST FOR DIFFERENTIAL ASSEMBLY 717-0326

REF. NO.	PART NO.	Qty. Req'd.	DESCRIPTION	NEW PART
1	715-0247	2	Spring Pin Spir. 3/16" Dia. x 1.00" Lg.	
2	748-0185	2	Gear—Double "O" Hole	
3	738-0302	1	Shaft—Long 15.11" Lg.	
4	736-0188	2	FI-Wash. .760 I.D. x 1.49 O.D.	
5	717-0341	2	Housing Half	
6	736-0119	2	L-Wash. 5/16" Scr.*	
7	710-0363	2	Hex Scr. 5/16-24 x 4.00" Lg.*	
8	736-0187	2	FI-Wash. .640 I.D. x 1.24 O.D.	
9	748-0158	2	Gear—Round Hole	
10	711-0276	1	Drive Pin	
11	712-0237	2	Hex Cent. L-Nut 5/16-24 Thd.	
12	09054	1	Sprocket—40 Tooth	
13	738-0303	1	Shaft—Short 7.58" Lg.	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

130-390A
130-395A

ILLUSTRATED PARTS FOR TRANSMISSION 717-0416



130-390A 130-395A

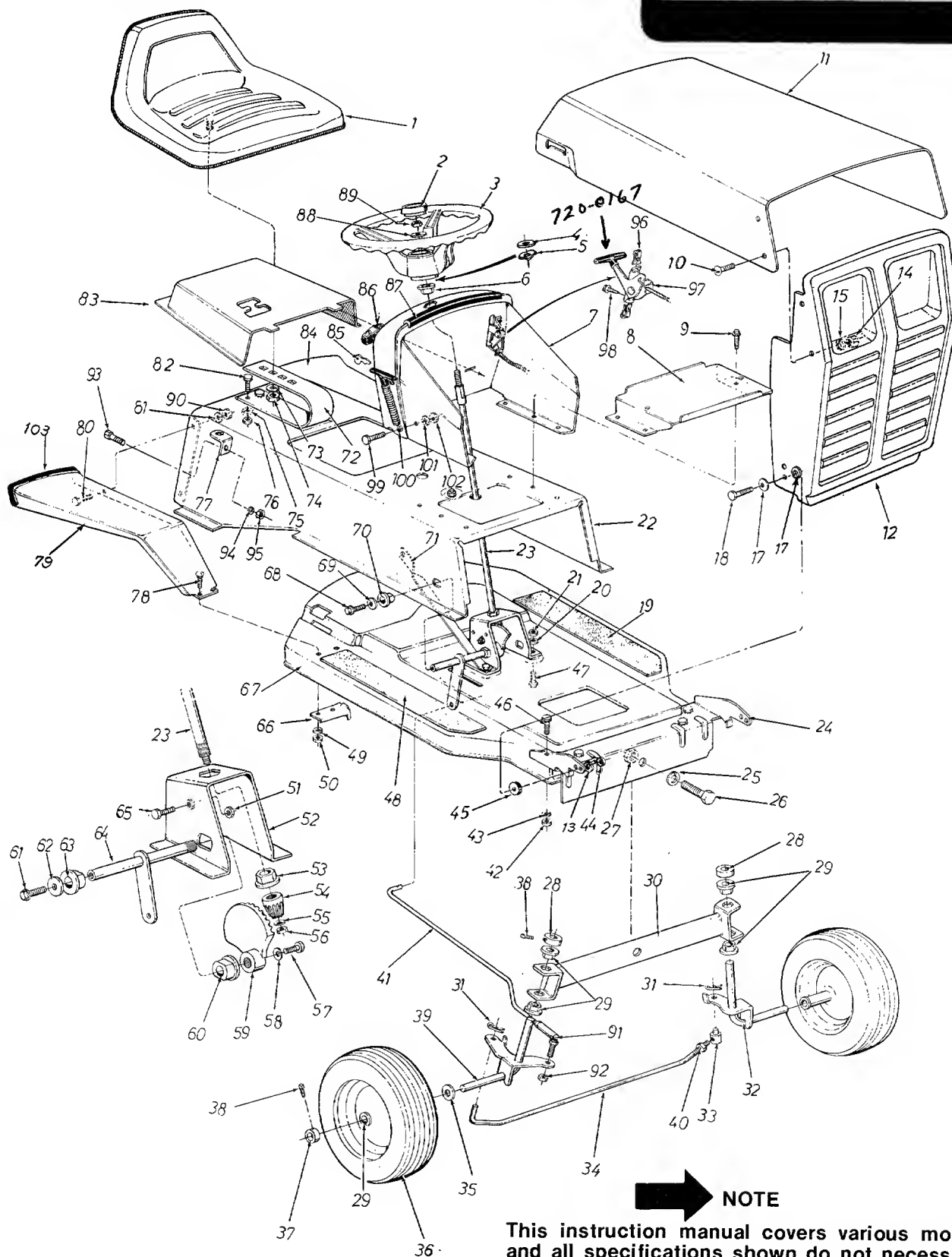
PARTS LIST FOR TRANSMISSION MODEL NO. 717-0416

REF. NO.	PART NO.	Qty. Req'd.	DESCRIPTION
1	FF-1300	1	Ring, Retaining
2	FF-1084	1	Sprocket, 8 T
3	FF-1068	*	Washer, Plain (.040)
3	FF-1082	*	Washer, Plain (.031)
3	FF-1145	*	Washer, Plain (.060)
3	FF-1358	*	Washer, Plain (.050)
3	FF-1423	*	Washer, Plain (.025)
3	FF-1424	*	Washer, Plain (.035)
3	FF-1425	*	Washer, Plain (.045)
3	FF-1441	*	Washer, Plain (.020)
4	FF-1106	1	Ring, Retaining
5	FF-1101	4	Bearing, Flange
6	FF-1072	1	Gear, Spur 20T
7	FF-1444	1	Gear, Spur, 30T
8	FF-1083	2	Collar, Clutch
9	FF-1095	2	Spring, Compression
10	FF-1064-A	1	Housing, Lower
11	FF-1076	1	Gear, Spur, 25T
12	FF-1075	1	Gear, Spur, 25T
13	FF-1099	2	Ring, Retaining
14	FF-1325	1	Spacer
15	FF-1078	1	Gear, Spur, 30T
16	FF-1374	1	Key, Wdr., No. 9 Alloy
17	FF-1670	1	Cover, Nylon
18	FF-1091	1	Insert, Nylon
19	FF-1318	1	Knob, Shift
20	FF-2683	1	Assembly, Lever, Shift
21	FF-1100	1	Ring, Retaining
22	FF-1096	1	Washer, Wave
23	FF-1085	1	Gear, Bevel, 42T
24	FF-1071	1	Gear, Spur, 20T
25	FF-1087	1	Sprocket, 12T, Special
26	FF-1090	1	Chain
27	FF-1104	1	Sprocket, 12T, Special
28	FF-1371	2	Key, Wdrf., No. 4 Alloy
29	FF-1369	2	Key, Wdr., No. 3 Alloy
30	FF-1375	2	Key, Wdrf., No. 61 Alloy
31	FF-1094	1	Shaft, Output
32	FF-1443	1	Shaft, Drive
33	FF-1086	2	Key, Hi-Pro, Special
34	FF-1074	1	Plate, Lock-out
35	FF-1073	4	Screw, Shoulder
36	FF-1657	1	Fork, Shifter, R.H.
37	FF-1070	1	Fork, Shifter, L.H.
38	FF-1357	4	Screw, No. 10-24 x 1/2
39	FF-065-J	1	Housing, Upper
40	FF-1360	8	Bolt, Hx. Hd., 1/4-20 x 1-5/16
41	FF-1037	2	Ball, Detent
42	FF-1475	2	Spring, Detent
43	FF-1105	1	Pinion, Bevel, 16T
44	FF-1747	1	Shaft, Input
45	FF-1499	1	Washer, Thrust
46	FF-1102	2	Bearing, Needle
47	FF-1430	*	Washer, Plain (.040)
47	FF-1431	*	Washer, Plain (.050)
47	FF-1760	*	Washer, Plain (.015)
48	FF-1491	1	Ring, Retaining

*Indicates used in various combinations to maintain proper clearances.

130-390A 130-395A

IF YOU WRITE TO US ABOUT THIS ARTICLE
OR IF YOU ORDER REPLACEMENT PARTS AL-
WAYS MENTION THIS MODEL & SERIAL NO
MODEL



NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

PARTS LIST FOR LAWN TRACTOR MODELS 130-390A AND 130-395A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	757-0264		Seat Assembly		49	736-0329		L-Wash. 1/4" Scr.*	
2	731-0220		Cap for Steering Wheel		50	712-0287		Hex Nut 1/4-20 Thd.*	
3	731-0219		12" Dia. Steering Wheel		51	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
4	736-0156		Fl-Wash. .635 I.D. x 1.120 O.D.		52	12850		Steering Gear Shaft Ass'y.	
5	736-0174		Wave Wash. .66 I.D. x .88 O.D.		53	748-0228		Hex Flange Brg. .505 I.D.	
6	748-0227		Hex Flange Brg. .630 I.D.		54	748-0237		Pinion Gear	
7	12740		Dash Panel Ass'y.—Recoil (390A)		55	736-0242		Belleville Wash.	
	12742		Dash Panel Ass'y.—Elect. (395A)		56	712-0237		Hex Cent. L-Nut 5/16-24 Thd.	
8	12747		Battery Bracket (395A)		57	710-0180		Hex Scr. 3/8-24 x .75" Lg.*	
9	710-0198		Hex Sems Scr. 5/16-18 x .75 Lg.*		58	736-0105		Belleville Wash.	
10	710-0255		Truss Mach. Scr. 1/4-20 x .75" Lg.*		59	748-0236		Bevel Gear	
11	11836	—462	Hood		60	741-0199		Plastic Flanged Brg.	
12	13794	—462	Grille—Complete		61	710-0325		Hex Scr. 3/8-24 x .50" Lg.*	
13	736-0169		L-Wash. 3/8" I.D.*		62	736-0105		Belleville Wash.	
14	712-0287		Hex Nut 1/4-20 Thd.*		63	741-0199		Plastic Flanged Brg.	
15	736-0329		L-Wash. 1/4" Scr.*		64	12749		Steering Arm Shaft Ass'y.	
17	736-0253		Belleville Wash. .515 I.D. x 1.00" O.D.		65	710-0670		Hex Scr. Nylon 3/8-16 x 1.25" Lg.	
18	738-0145		Shld. Scr. .498 Dia. x .835" Lg.		66	11055		Transmission Belt Guard	
19	723-0305		Foot Mat—L.H.		67	13879	—462	Lower Frame	
20	736-0119		L-Wash. 5/16" Scr.*		68	710-0325		Hex Scr. 3/8-24 x .50" Lg.*	
21	712-0267		Hex Nut 5/16-18 Thd.*		69	736-0105		Belleville Wash.	
22	13880	—462	Upper Frame		70	741-0199		Plastic Flanged Brg.	
23	738-0307		Steering Shaft		71	12934		Transmission Support Brkt.	
24	12746	—462	Front Pivot Bracket		72	732-0256		Seat Spring 3.25 High	
25	736-0158		L-Wash. 5/8" Scr.*		73	736-0921		L-Wash. 1/2" Scr.*	
26	710-0312		Hex Scr. 5/8-18 x 1.31—Special		74	712-0206		Hex Nut 1/2-13 Thd.*	
27	712-0923		Hex Cent. Jam Nut 5/8-18 Thd.		75	736-0119		L-Wash. 5/16" Scr.*	
28	711-0169		Collar for a 5/8" Dia.		76	712-0267		Hex Nut 5/16-18 Thd.*	
29	741-0313		Flange Brg. .630 I.D.		77	09963	—462	Hitch Bracket	
30	13274	—462	Pivot Bar Ass'y.		78	710-0255		Truss Mach. Scr. 1/4-20 x .75" Lg.*	
31	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*		79	11002	—462	Rear Fender	
32	12752	—462	Axle Ass'y.—Front—L.H.		80	710-0195		Hex Scr. 1/4-28 x 62" Lg.*	
33	711-0198		Ferrule		81	736-0329		L-Wash. 1/4" Scr.*	
34	747-0144		Tie Rod		82	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
35	736-0156		Fl-Wash. .635 I.D. x 1.120 O.D.		83	13881	—462	Transmission Penal	
36	734-0949		Front Wheel Ass'y.—Comp. 11.0 x 4.0	N	84	11002	—462	Rear Fender	
	734-0819		Rim Only		85	725-0201		Ignition Key Only	
37	711-0169		Collar 5/8" I.D.			725-0464		Ignition Switch (Not Shown) (390A)	
38	710-0666		Sq. Hd. Set Scr. 5/16-18 x .38" Lg.			725-0267		Ignition Switch (Not Shown) (395A)	
39	12755	—462	Axle Ass'y.—Front—R.H.		86	11263		Plastic Handle (390A)	
40	712-0711		Hex Jam Nut 3/8-24 Thd.		87	731-0272		Vinyl Strip	
41	711-0625		Steering Rod		88	736-0242		Belleville Wash. .345 I.D. x .88 O.D.	
42	712-0267		Hex Nut 5/16-18 Thd.*		89	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
43	736-0119		L-Wash. 5/16" Scr.*		90	712-0138		Hex Nut 1/4-28 Thd.*	
44	712-0375		Hex Cent. L-Nut 3/8-16 Thd.		91	723-0156		Ball Joint Ass'y. 3/8-24 Thd.	
45	748-0190		Spacer		92	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
46	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		93	710-0216		Hex Scr. 3/8-16 x .75" Lg.*	
47	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		94	736-0119		L-Wash. 3/8" Scr.*	
48	723-0304		Foot Mat—R.H.		95	712-0798		Hex Nut 3/8-16 Thd.*	
					96	712-0344		Speed Nut #10	
					97	746-0160		Throttle Control Ass'y.	
					98	710-0351		Truss Mach. B-Tap. Scr. #10 x .50" Lg.	
					99	710-0289		Hex Scr. 1/4-20 x .50" Lg.*	
					100	723-0296		Hood Lock Ass'y.	
					101	736-0329		L-Wash. 1/4" Scr.*	
					102	712-0287		Hex Nut 1/4-20 Thd.*	
					103	731-0497		Edge Strip (6.5" Lg.)	

130-390A

130-395A

This is a detailed exploded view diagram of a mechanical assembly, likely a piece of industrial equipment. The diagram shows various components and their assembly relationships, indicated by dashed lines. The parts are numbered as follows:

- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113.

The assembly includes a large circular component (90) with a central hub (89) and a bolt (87). A complex linkage system is shown in the center, featuring a lever (17) and a pivot point (35). A motor or actuator unit (39) is connected to the linkage. A control panel or display (23) is mounted on a base (24). A large rectangular component (1) is shown at the top, possibly a housing or frame. The diagram is a technical drawing with dashed lines indicating the assembly path and alignment of the parts.

PARTS LIST FOR LAWN TRACTOR MODELS 130-390A AND 130-395A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	712-0429		Hex Ins. L-Nut 5/16-18 Thd.		20	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
2	10360		Axle Bolt Plate Ass'y.		21	736-0192		Flat Wash. .531 I.D. x .93 O.D.	
3	11011		Disc Brake Brkt. Ass'y.		22	13851		Lockout Link Ass'y.	
4	11024		Deck Link		23	11037		Clutch Pedal Ass'y.	
5	09721		Pivot Link Ass'y.			12379		Clutch Pedal Pad	
6	11014		Connecting Lift Brkt.		24	710-0442		Hex Hd. Cap Scr. 5/16-18 x 1.50" Lg.*	
7	09721		Pivot Link Ass'y.		25	714-0115		Cotter Pin	
8	736-0192		Flat Wash. .531 I.D. x .93 O.D.		26	714-0115		Cotter Pin	
9	714-0101		Int. Cotter Pin 1/2" Dia.		27	11057		Parking Brake Lever Ass'y.—L.H.	
10	736-0119		L-Wash. 5/16" Scr.*		28	11061		Clutch Rod	
11	712-0267		Hex Nut 5/16-18 Thd.*		29	12446		Idler Brkt. Ass'y.	
12	11249		Ht. Adj. Knob		30	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
13	11027		Handle Stop Bracket Ass'y.		31	732-0191		Sprg. (Idler) .75 O.D. x 11.0" Lg.	
14	712-0429		Hex Ins. L-Nut 5/16-18 Thd.		32	738-0273		Spacer .632 I.D. x .88 O.D.	
15	08118		Grip Finger—Black		33	735-0195		Rubber Wash.	
16	749-0212		Lift Handle—R.H.		34	713-0104		#41 Chain 1/2 Pitch x 65 Links	
17	13630		Lift Handle Brkt. Ass'y.			713-0723		Master Link	
18	736-0219		Belleville Wash. .40 I.D. x 1.13 O.D.						
19	710-0201		Hex Hd. Cap Scr. 3/8-16 x .62" Lg.*						

26

PARTS LIST FOR LAWN TRACTOR MODELS 130-390A AND 130-395A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
35	720-0165		Ball Knob		75	761-0130		Disc Brake Ass'y.—Comp.	
36	736-0133		FI-Wash. .400 I.D. x 1.25" O.D.		76	710-0176		Hex Hd. Cap Scr. 5/16-18 x 2.75" Lg.	
37	747-0172		Shift Lever		77	761-0133		Spacer for Disc Brake .322 I.D. x .38	
38	736-0237		FI-Wash.		78	11010		Brake Plate	
39	717-0416		Three Speed Trans.—Comp.		79	HH-12-03292		Casting Carrier Side	
40	712-0267		Hex Nut 5/16-18 Thd.*		80	HH-15-03149		Friction Pad 1.110" Dia. x .245 Thk.	
41	747-0107		Brake Rod .25 Dia. x 24.12" Lg.		81	HH-12-03292		Casting Cam Side	
42	11036		Brake Pedal Ass'y.		82	761-0133		Spacer for Disc Brake .322 I.D. x .38	
	10614		Brake Pedal Pad		83	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
43	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*		84	HH-06-03031		Spring	
44	738-0140		Shld. Scr. .431 Dia. x .18" Lg.		85	732-0157		Sprg. .380 O.D. x 3.25 (Brake Return)	
45	732-0245		Brake Spring		86	747-0107		Brake Rod .25 Dia. x 24.12" Lg.	
46	726-0100		Push Nut 3/8" Dia. Rod		87	710-0627		Hex Scr. w/Lock 5/16-24 x .75	
47	12654		Engine Belt Guard Ass'y.		88	736-0242		Bell. Wash. .345 I.D. x .88 O.D.	
48	736-0242		Bell. Wash.		89	734-0521		Rear Wheel Rim Ass'y. Less Tire	
49	738-0215		Shld. Bolt 3.60" Lg.		90	734-0427		Rear Wheel Tire Only 15.0 x 6.0	
50	736-0119		L-Wash. 5/16" Scr.*			734-0524		Rear Wheel Ass'y. w/Tire	
51	712-0267		Hex Nut 5/16-18 Thd.*		99	712-0267		Hex Nut 5/16-18 Thd.*	
52	12160		Belt Keeper Ass'y.		100	736-0119		L-Wash. 5/16" Scr.*	
53	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*		101	748-0151		Flange Brg. w/Flats .753" I.D.	
54	710-0538		Hex Hd. Cap Scr. 5/16-18 x .62 Special		102	748-0151		Flange Brg. w/Flats .753" I.D.	
55	736-0242		Bell. Wash. .345 I.D. x .88 O.D.		103	710-0437		Chain Adj. Link 5/16-18 Thd.	
56	736-0119		L-Wash. 5/16" Scr.*		104	11009		Rear Axle Brkt.	
57	712-0267		Hex Nut 5/16-18 Thd.*		105	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
58	11039		Pedal "U" Brkt. Ass'y.		106	736-0119		L-Wash. 5/16" Scr.*	
59	738-0213		Shld. Bolt .498 Dia. x 1.45		107	712-0267		Hex Nut 5/16-18 Thd.*	
60	10426		Belt Keeper Ass'y.		108	711-0332		Left Brkt. Pin	
62	712-0429		Hex Ins. L-Nut 5/16-18 Thd.		109	738-0140		Shld. Scr. .431 Dia. x .18" Lg.	
63	11056		Parking Brake Lever Ass'y. R.H.		110	710-0201		Hex Hd. Cap Scr. 3/8-16 x .62" Lg.*	
64	712-0287		Hex Nut 1/4-20 Thd.		111	11023		Deck Link Ass'y. (3 Req'd.)	
65	726-0121		Push Cap .25 Dia.		112	732-0157		Sprg. .380 O.D. x 3.25 (Brake Return)	
66	710-0134		Carriage Bolt 1/4-20 x .62" Lg.*		113	735-0126		Rubber Wash. .33 I.D. x .87 O.D.	
67	761-0147		Blade Brake Ass'y.						
68	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*						
69	HH-02-03631		Hex Lock Nut						
70	HH-03-03032		Washer						
71	HH-18-03493		Cam Lever						
72	HH-05-03034		Push Pin						
73	HH-03-03303		Disc Backup						
74	HH-15-02124		Friction Pad 1.110" Dia. x .472 Thk.						

*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on the parts list.

WHEEL CHART

FRONT WHEEL

REAR WHEEL

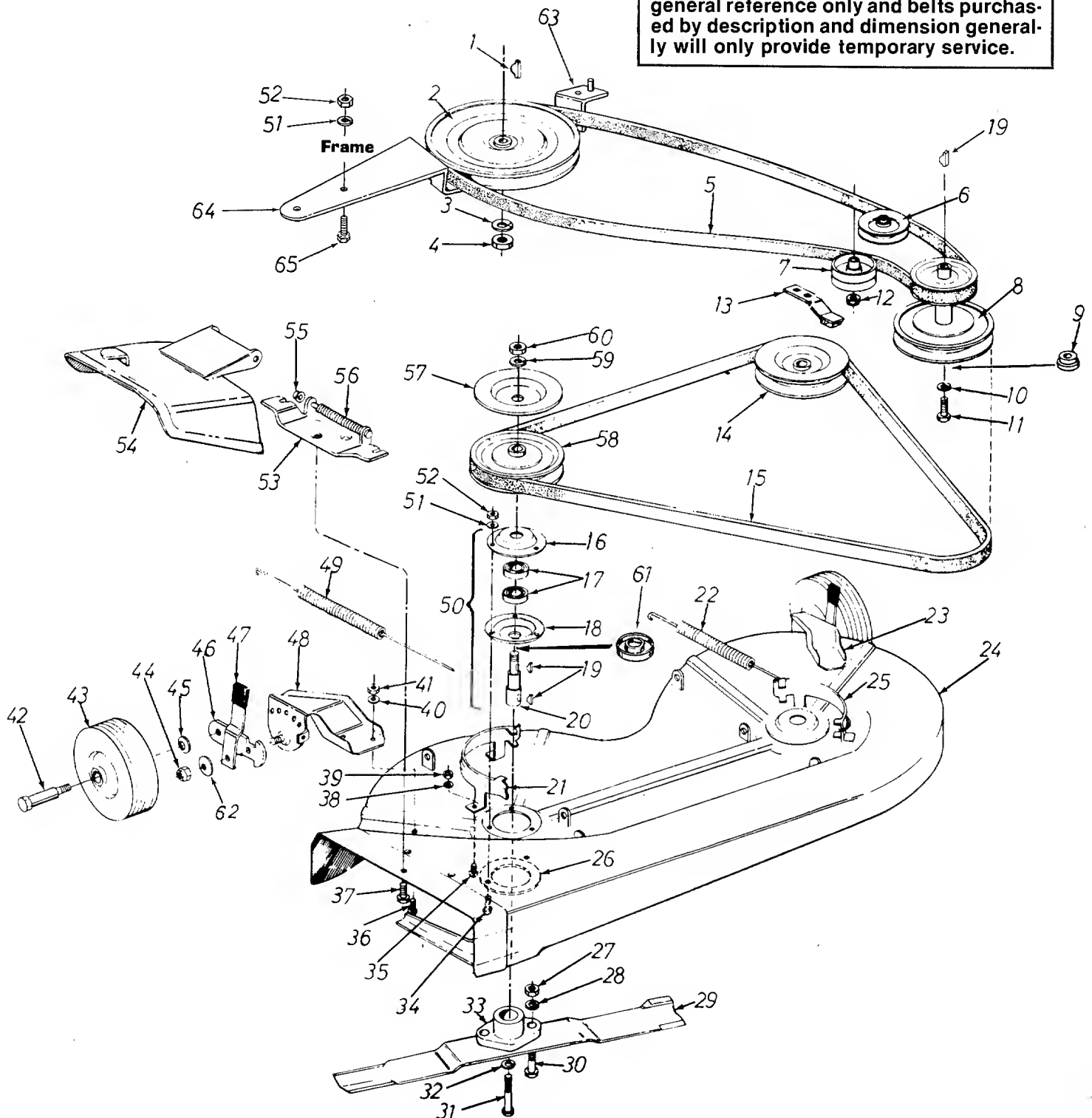
REF. NO.	DESCRIPTION	REF. NO.	DESCRIPTION
734-0949	Wheel Ass'y. Comp. 11.0 x 4.0	734-0524	Wheel Ass'y. Comp. 15.00 x 6.00
734-0819	Rim Ass'y. Only	734-0521	Rim Ass'y. with Hub
741-0313	Flange Brg. .630" I.D.	734-0427	Tire Only Tubeless 15.00 x 6.00
		741-0199	Bearing—Rear Wheel
		734-0255	Air Valve

130-390A 130-395A



IMPORTANT

Belts listed by Part Number are of special construction and should be used when replacement is necessary. The dimensions and description given are for general reference only and belts purchased by description and dimension generally will only provide temporary service.



PARTS LIST FOR LAWN TRACTOR MODELS 130-390A AND 130-395A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.		33	748-0189		Blade Adapter	
2	756-0174		Transmission Split Pulley .50 I.D.		34	10769		Blade Adapter Kit	
3	736-0921		L-Wash. 1/2" Scr.*		35	710-0322		Hex Sems Cap Scr. 5/16-18 x 1.00" Lg.* (3 Req'd.)	
4	712-0922		Hex Jam Nut 1/2-20 Thd.		36	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50" Lg.*	
5	754-0198		"V" Belt 1/2 x 62" Lg. (Drive Belt)		37	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50" Lg.*	
6	756-0116		"V" Idler 3.06 O.D.		38	710-0195		Hex Hd. Cap Scr. 1/4-28 x .62" Lg. (3 Req'd.)	
7	756-0217		"P" Flat Idler 2.75 O.D.		39	736-0329		L-Wash. 1/4" Scr.*	
8	756-0246		Two Step Engine Pulley		40	712-0287		Hex Nut 1/4-20 Thd.*	
9	711-0572		Step Washer for Engine Pulley		41	736-0329		L-Wash. 1/4" Scr.*	
10	736-0217		L-Wash. 3/8" Scr.*		42	712-0287		Hex Nut 1/4-20 Thd.*	
11	710-0151		Hex Hd. Cap Scr. 3/8-24 x 2.00" Lg.*		43	738-0373		Axle Bolt .478 Dia. x 1.53" Lg.*	
12	712-0116		Hex Inserted L-Nut 3/8-24 Thd.		44	734-0973		Wheel Ass'y.—Comp. 5 x 1.38 Dia.	N
13	761-0174		Blade Brake Assembly		45	712-0116		Hex Inserted L-Nut 3/8-24 Thd.	
14	756-0251		Deck Pulley 4.75 O.D. (2 Req'd.)		46	736-0105		Belleville Wash. .345 I.D. x .88 O.D.	
15	754-0167		"V" Belt 21/32 x 64" Lg. (Blade Belt)		47	10937		Wheel Pivot Bar	
16	08253		Housing—Bearing		48	10949		Spring Lever Ass'y. with Knob	
17	741-0919		Ball Brg. .787 I.D. x 1.85 O.D.		49	11236		Wheel Brkt. Ass'y. R.H.	
18	08253		Housing—Bearing		50	732-0307		Deck Spring	
19	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.		51	09321		Blade Spindle Ass'y.—Comp.	
20	711-0255		Blade Spindle		52	736-0119		L-Wash. 5/16" Scr.*	
21	12673		Belt Guard R.H.—Deck		53	712-0267		Hex Nut 5/16-18 Thd.	
22	732-0307		Deck Spring		54	11399		Adapter Plate Ass'y.	
23	11237		Wheel Bracket Ass'y.—L.H.		55	11633		Chute Cover Ass'y.	
24	13962		30 In. Deck Assembly		56	726-0106		Push Nut 1/4" Rod	
25	12672		Belt Guard L.H.—Deck		57	732-0261		Torsion Spring	
26	09164		Deck Reinforcement Plate		58	09322		Blade Brake—Disc	
27	712-0123		Hex Nut 5/16-24 Thd.*		59	756-0251		Deck Pulley 4.75 O.D. (2 Req'd.)	
28	736-0119		L-Wash. 5/16" Scr.*		60	736-0158		L-Wash. 5/8" Scr.*	
29	742-0118		15 In. Blade (2 Req'd.)		61	712-0242		Hex Jam Nut 5/8-11 Thd.	
30	710-0117		Hex Hd. Cap Scr. 5/16-24 x 1.00" H.T.		62	13703		Bearing Shield	
31	710-0459		Hex Hd. Cap Scr. 3/8-24 x 1.50" H.T.		63	736-0219		Bell. Wash.	
32	736-0217		L-Wash. 3/8" Scr. H.D.		64	10426		Belt Keeper Ass'y.	
					65	11055		Transmission Belt Guard	
						710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*	

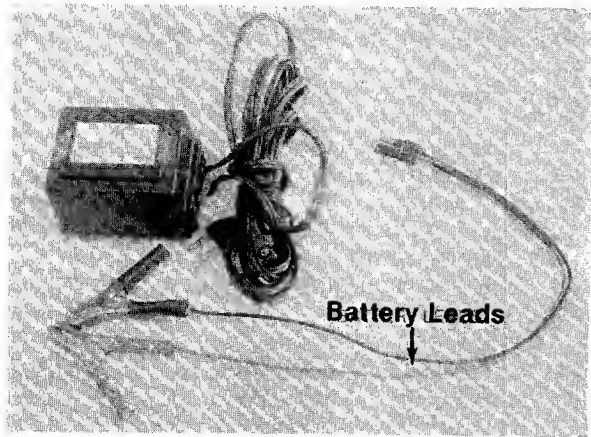
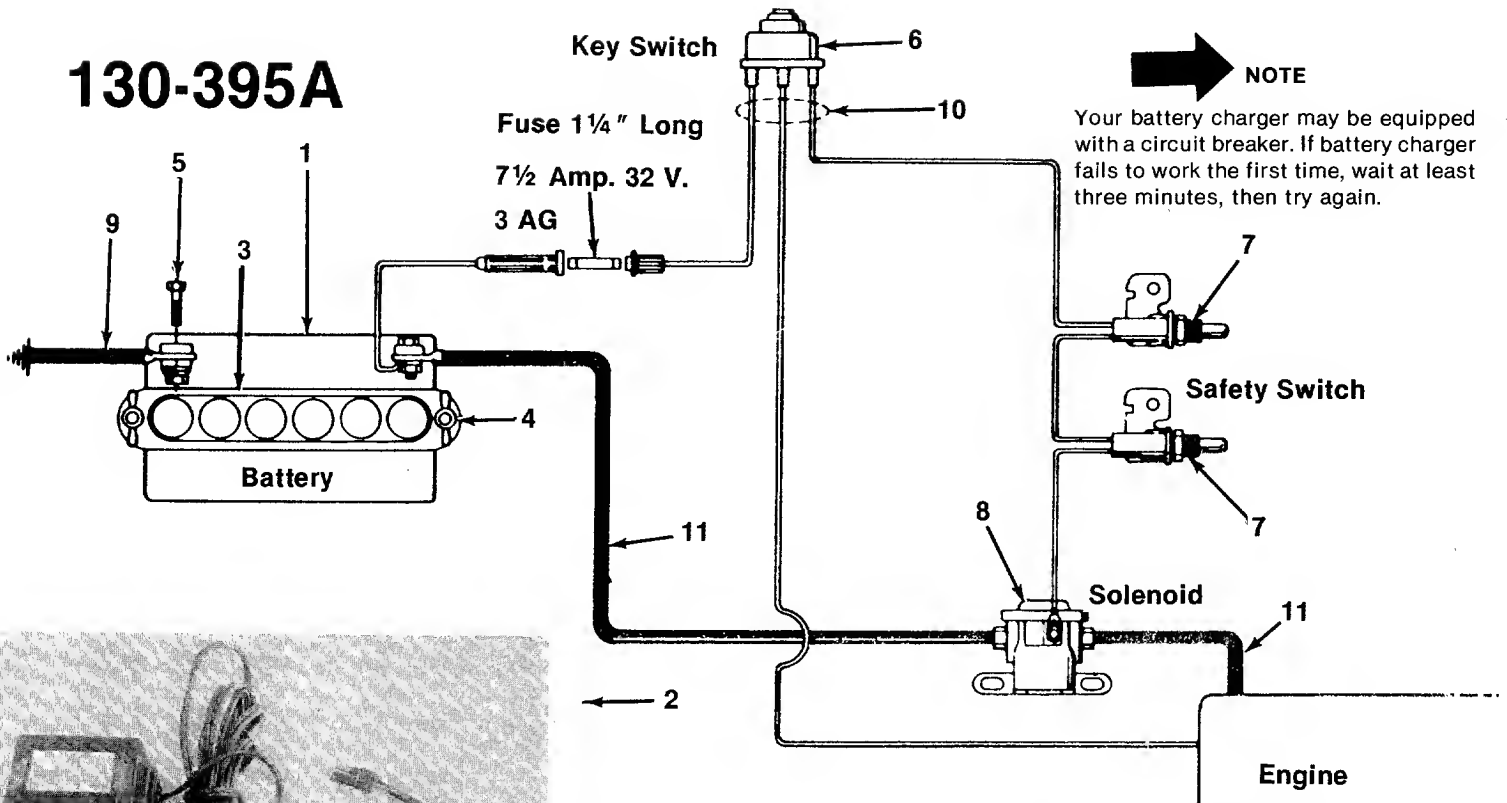
*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(462—Red Flake) When ordering parts if color or finish is important, use color code shown at left. (e.g. Red Flake Finish—11001 (462).)

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines — Gasoline."



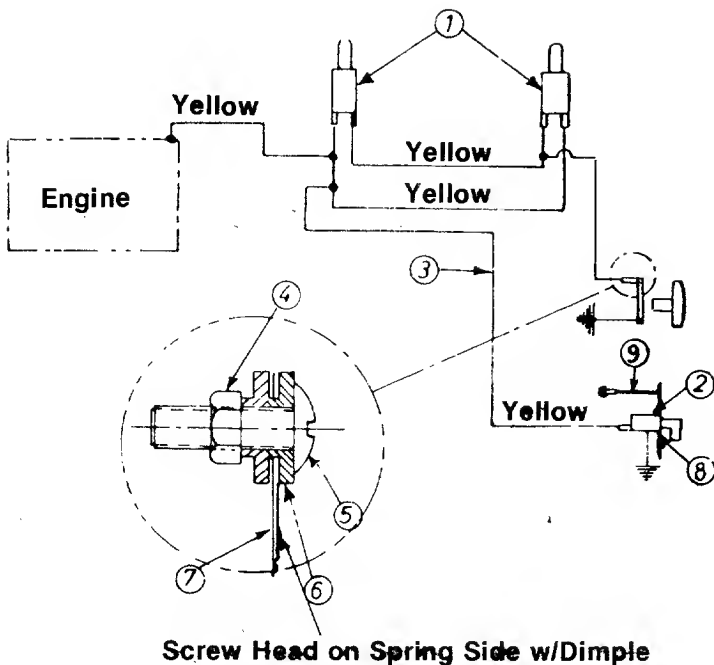
130-395A



PARTS LIST FOR SCHEMATIC MODEL 130-395A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0117		Battery	
2	725-0578		Battery Charger	
3	725-0579		Charger Clip Adapter Wire	
4	08821		Battery Hold Down	
5	711-0222		Hold Down Rods	
	736-0329		Lock Washer 1/4" *	
	712-0113		Wing Nuts 1/4-20 Thd.*	
	710-0252		Hex Hd. Cap Scr. 1/4-20 x .75 Lg.*	
	736-0329		Lock Washer 1/4" *	
	712-0287		Hex Nut 1/4-20 Thd.*	
6	725-0267		Key Switch	
	725-0201		Key	
7	725-0268		Safety Switch	
8	725-0530		Solenoid	
9	725-0387		Ground Wire	
10	725-0489		Wire Harness	
11	725-0121		Electric Wire	

130-390A



PARTS LIST FOR SCHEMATIC MODEL 130-390A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0269		Safety Switch—Red (2 Req'd.)	
2	725-0464		Magneto Ignition Switch w/Nut	
	725-0128		Ignition Key	
3	725-0272		Wire Harness	
4	712-0121		Hex Nut #10-24	
5	710-0425		Truss Mach. Scr. #10-24 x .62	
6	736-0338		Fiber Washer (2 Req'd.)	
7	732-0257		Switch Spring	
8	736-0225		Internal Lock Washer 5/8 I.D.	
9	725-0297		Ground Wire	

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts number, description of parts and the quantity of each part required.

ALABAMA	BIRMINGHAM
Auto Electric & Carburetor Co.	2625 4th Ave. S. 35233
ARKANSAS	FORT SMITH
Mity Mite Motors, Inc.	4515 South 16th Street 72901
	NORTH LITTLE ROCK
Sutton's Lawn Mower Shop	Rt. 4 Box 368. 72117
CALIFORNIA	PORTERVILLE
Billious	75 North D Street 93257
	SAN BERNARDINO
Lawn Mower Supply Co.	25608 E. Baseline 92410
	SAN FRANCISCO
J.W. Jewett Co.	981 Folsom St. 94107
COLORADO	DENVER
South Denver Lawn Equip.	527 West Evans 80223
FLORIDA	JACKSONVILLE
Radco Distributors	2403 Market St. 32206
	OPA LOCKA
Small Eng. Dist.	2351 N.W. 147th St. 33054
GEORGIA	EAST POINT
East Point Cycle & Key.	2834 Church St. 30344
ILLINOIS	LYONS
Keen Edge Co.	8615 Ogden Ave. 60534
INDIANA	ELKHART
Parts & Sales Inc.	2101 Industrial Pkwy. 46514
IOWA	DUBUQUE
Power Lawn & Garden Equip.	2551 J.F. Kennedy. 52001
LOUISIANA	NEW ORLEANS
Suhren Engine Co.	8330 Earhart Blvd. 70118
MARYLAND	TAKOMA PARK
Center Supply Co.	6867 New Hampshire Ave. 20012
MASSACHUSETTS	SPRINGFIELD
Morton B. Collins Co.	300 Birnie Ave. 01107
MICHIGAN	LANSING
Lorenz Service Co.	2500 S. Pennsylvania. 48910
	MOUNT CLEMENS
Power Equipment Dist.	36463 South Gratiot .. 48043
MINNESOTA	HOPKINS
Hance Distributing Inc.	420 Excelsior Ave. W. 55343
	ST. PAUL
Power Tools Inc.	3771 Sibley Memorial Hwy. 55122
MISSISSIPPI	BILOXI
Biloxi Sales & Service, Inc.	506 Caillavet St. 39533
MISSOURI	KANSAS CITY
Automotive Equip. Service	3117 Holmes St. 64109
	ST. JOSEPH
Ross-Frazier Supply Co.	8th and Monterey 64503
	ST. LOUIS
Henzler, Inc.	2015 Lemay Ferry Rd. 63125
NEW JERSEY	BELLMAWR
Lawnmower Parts Inc.	717 Creek Rd. 08030
	RUTHERFORD
Feld Distributor	28 Glen Rd. 07070
NEW YORK	CARTHAGE
Gamble Dist., Inc.	West End Ave. 13619

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

	SYRACUSE
GTP Leisure Products Inc.	420 Marcellus St. 13204
NORTH CAROLINA	GOLDSBORO
Smith Hardware Co.	515 N. George St. 27530
	GREENSBORO
Dixie Sales Company	327 Battleground Ave. 27402
OHIO	CARROLL
Stebe's Mid-State Mower Supply ...	Box 366-71 High St. .. 43112
	CLEVELAND
Bleckrie, Inc.	7900 Lorain Ave. 44102
	WADSWORTH
National Central.	687 Seville Rd. 44281
	YOUNGSTOWN
Burton Supply Co.	1301 Logan Ave. Box 929 .. 44501
OKLAHOMA	ADA
Ada Auto Supply	301 E. 12th St. 74820
	MUSKOGEE
Victory Motors, Inc.	605 S. Cherokee. 74401
	OKLAHOMA CITY
Forest Sales Inc.	1039 NW 63rd St. 73116
OREGON	PORTLAND
Kenton Supply Co.	8216 N. Denver Ave. .. 97217
PENNSYLVANIA	CHESTER
Stull Equipment Corp.	742 W. Front St. 19013
	HARRISBURG
EECO Inc.	4021 N. 6th St. 17110
	PHILADELPHIA
Thompson Rubber Co.	5222-24 N. Fifth St. 19120
	PITTSBURGH
Bluemont Co.	11125 Frankstown Rd. 15235
TENNESSEE	KNOXVILLE
Master Repair Service.	2000 Western Ave. 37921
	MEMPHIS
Memphis Cycle & Supply Co.	421 Monroe Ave. 38103
American Sales & Service, Inc.	1922 Lynnbrook. 38116
TEXAS	DALLAS
Marr Brothers, Inc.	423 E. Jefferson. 75203
	FORT WORTH
Woodson Sales Corp.	1702 N. Sylvania 76111
	HOUSTON
Bullard Supply Co.	2409 Commerce St. 77003
	SAN ANTONIO
Catto & Putty, Inc.	414 Live Oak 78298
UTAH	SALT LAKE CITY
A-1 Engine & Mower Co.	437 E. 9th St. 84111
VERMONT	BURLINGTON
Vermont Hdwe. Co. Inc.	180 Flynn Ave. 05401
VIRGINIA	RICHMOND
RBI Corp.	963 Myers St. 23260
WASHINGTON	SEATTLE
Bailey's Inc.	1414 14th Ave. 98102
WEST VIRGINIA	CHARLESTON
Young's, Inc.	233 Virginia St., E. 25301
WISCONSIN	APPLETON
Automotive Supply Co.	123 S. Linwood Ave. .. 54911

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.